The American Artisan
And Hardware Record

Vol. 52. No. 1. CHICAGO, JULY 7, 1906. $2.00 Per Year.

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COLUMBUS BOLT WORKS,
COLUMBUS, OHIO.
Bolts, Rivets, Nuts, Washers, Carriage Forgings, Etc.
CATALOG AND PRICES ON APPLICATION.

THE WIZARD
Adjustable Flexible Hanger.
Prevents Doors from Dragging or Binding

Stronger Than Any Other Flexible Hanger, Easily Adjusted and Runs Smoothly.
Ask your jobber or write us.
Safety Door Hanger Co.
Ashland, Ohio. Hamilton, Ont.

GARLAND NUT & RIVET Co. PITTSBURGH

SMALL RIVETS
FOR ALL PURPOSES
SELECTED MATERIAL
UNIFORMITY
GOOD APPEARANCE
SQUARE CUT-OFF
QUICK SHIPMENTS
SMALL BOLTS AND PUMP CHAIN
GARLAND NUT & RIVET CO.
PITTSBURGH, PA.

The Sun Always Shines
Upon the house where
"American Seal" Elastic Oil Cement
has been used
Strengthens Weak Spots and Stops Leaks

For bedding slate and tile Roofs — The best to be had
THE PRICE IS RIGHT!
The Wm. Connors Paint Mfg. Company
Troy, N. Y.

BLACK DIAMOND FILES and RASPS

Twelve Medals Awarded at International Expositions
Copy of Catalogue will be sent free to any interested file user upon application.
G. & H. BARNETT COMPANY
Black Diamond File Works PHILADELPHIA

TRYING to do business without advertising is like winking at a girl in the dark; you know what you are doing but nobody else does.

"BROWN" TIE-OUT CHAINS
Fitted with Stake Ring, a Swivel every ten feet, and a Swivel Snap.
A FREE SAMPLE WILL TELL THE STORY.
The BRIDGEPORT CHAIN CO.
BRIDGEPORT, CONN.

TS200
.A7

"This Stove Attends to Its Own Business."

The Tremont Soft Coal Self Feeder

(PATENTED)

Successful for more than 10 years.

Now made with wide polished nickel screen foot rails hiding Fire Pot.

PRICES FOR JULY:

No. 160—	Cast	Body	$18.00
No. 180—	"	"	20.40
No. 16—	"	"	16.20
No. 18—	"	"	18.60

5% Cash.

Freight allowed to most places. Orders booked now for later shipment.

This wonderful stove Has, Does and Will successfully feed and burn the dirtiest and meanest soft coal ever mined.

This stove is a perfect success with the kinds of soft coal that are full of gas—that get spungy and that "swell up and bust."

The Tremont Soft Coal Self-Feeder is as simple as any stove that you have ever seen. Anybody that can cut kindling, lift a coal hod and strike a match can run it.

If you are a little suspicious of Soft Coal Self-Feeding Stoves—we don't blame you—for you may have been "fooled" by some of the "complicated affairs" that can only be operated by their inventors.

All that we ask is an opportunity to prove our claims—and nothing else will clinch our arguments like having you test the stove yourself. Will you do it?

Pittsburgh Stove & Range Co.
Pittsburgh, Pa.

STEEL CASING RINGS

Are Made to Conform to Individual Requirements in Every Respect

Never Break ——— *Circles Perfect*

With Lugs—For Double Casings
Without Lugs—For Single Casings
Full Circles—For Ordinary Use
Partial Circles—For Full Cast Fronts

Always to Exact Circumference From Your Own Dimensions
Write Now

Ready to Use ——— *Increase Profits*

THE WALWORTH RUN FOUNDRY CO., 27th St., S. W., Cleveland, O.

Makers of Fine Grey Iron Castings — Mfrs. of Semi-Steel Registers

MAKE MONEY THIS SUMMER

You can—if you'll push. The other essentials are in our July catalogue.

A Special Sale of 5 and 10 cent Leaders uniformly priced at 45 and 95 cents the dozen, and the more than twelve thousand other 5 and 10 cent items included in our line.

On the Green Pages a detailed explanation of a 5 and 10 cent store "on the side" easily started in any store, plenty of plans for using 5 and 10 cent goods resultfully.

In our July catalogue you will find both The Goods and The Plans. And you have The Push. You CAN be busy and make money—This Summer.

Yes; The Goods are "little things." But it's poor business to let a mere prejudice keep you from knowing *the truth*—particularly when the whole subject is covered so specially as in our July catalogue.

That July catalogue of ours is No. MC. 580 shall we send YOU a copy?

BUTLER BROTHERS

WHOLESALERS OF GENERAL MERCHANDISE

NEW YORK **CHICAGO** **ST. LOUIS** (and MINNEAPOLIS After January 1, 1907)

Sample Houses: BALTIMORE, DALLAS, ST. PAUL

ONE REASON WHY SO MANY FAIL

to get results from heating plants installed is that they do not install furnaces that are constructed on practical and scientific principles.

Results are obtained only from furnaces that are properly proportioned, and possess a sufficient amount of surface exposed to the direct rays of the fire.

The MUELLER

All Cast, Double Radiator Furnace gives results whereever used. There are numerous reasons for this. Why not learn these reasons? Our catalogue, illustrating and describing our entire line of heaters, tells about them. Shall be send it?

L. J. MUELLER FURNACE CO., 191 Reed St., Milwaukee, Wis.

ESTABLISHED 1857

Branch Offices and Warehouses at CHICAGO, SEATTLE, MINNEAPOLIS, KANSAS CITY

The Ajax Furnace

The Furnace With Cast Radiator

We make it also with Steel Radiator

¶ The largest proportion of all furnaces installed are for houses of average cost and of medium to large size. It is for this class of work that the AJAX is specifically made. It has the required heating capacity, ease of operation and low cost for installing, which make it the principal low-priced furnace in the market.

¶ Send for our catalogues. We still make Ranges, Cooks and Base Burners also.

JOHN KONTNY, 65-67 North Desplaines Street
Chicago, Western Agent

CO-OPERATIVE FOUNDRY COMPANY

Founded in 1867 ROCHESTER, N. Y.

14, 15 and 16½-in. Fire Pot
Full Inside Measure.

REGAL PEORIA

Highest Grade Double Heating Base Burner for Hard Coal

A strictly high grade modern stove having all the latest improvements of practical value. **Very economical** and a **powerful base heater** by reason of our perfect flue construction which throws heat over entire surface of base, utilizing all heat. The Hot Air Circulating Flue draws cold air from floor and in its passage through the heated base up and through back flue to Hot Air Exit, the air becomes thoroughly heated. By attaching pipe to collar over Hot Air Exit this heat can be carried to upper room, or by reversing the damper this heat can be thrown into room occupied by the stove.

The Regal Peoria has **Improved Duplex Grate** with **Ball Bearing Shaking Ring.** Very easy to operate and removes the necessity of using a poker as this Shaking Ring cleans out thoroughly all ashes from outer edge of fire pot. Fire pot easily removed.

WRITE FOR PRICES AND TERRITORY

CULTER & PROCTOR STOVE COMPANY

PEORIA, ILLINOIS

FOSTER'S PEERLESS STEEL COOK

is leading again for 1906. Its points of excellence include all the best features of other brands together with the exclusive "Foster" qualities.

The body is formed of heavy Wellsville, riveted every two inches. Asbestos lined *throughout.* There is a sheet side opposite the oven door, the oven door is spring balanced and the ash pit door is arranged to swing. The reservoir is cast encased, the fire linings are heavy.

Any additional information and prices will be furnished on request.

THE FOSTER STOVE CO., Ironton, Ohio

VAN'S RANGE

Patent Improved Wrought Steel Portable

For Hotels, Restaurants, Public Institutions, Boarding Houses, and Private Families. All kinds of Hotel Implements for culinary purposes. Manufactured and for sale by

The John Van Range Company

Southwest Corner
5th and Broadway

CINCINNATI, - - - - - OHIO

B. & B. HEATER QUALITY

We occasionally meet people who do not know that B. & B. stands for "Brightest and best," but we have as yet to find the first person who does not regard our trade-mark as another name for quality. We suppose this is the natural fruit of our many years at successful Oil Stove building: whatever its origin, we regard it as the real source of our increasing business, our expanding departments and our broadening line.

Our Customers Stay With Us.

Our confidence that we are not overstating the B. & B. case is established by the fact that a study of our earliest business records shows many names still numbered among our most valued customers. They have found the B. & B. Line too good to lose and their Oil Stove prosperity has been side by side with our own.

Prices for 1906 That Will Increase Your Trade.

Figures that we are offering, particularly on three new patterns are such that with their assistance you will be safely intrenched against any possible attacks from your competitor. Our schedule is yours for the asking and with it you will receive other printed matter which will give you a complete knowledge of our line.

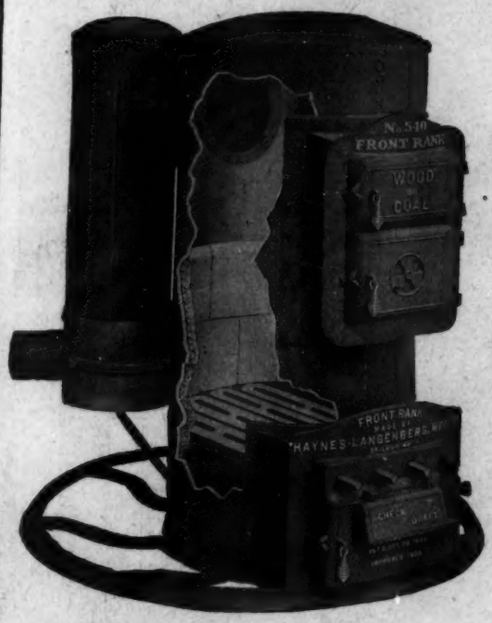
Our new No. 33 is the gem of all Oil Heaters. The general design was worked out by an artist of the first-class and it fairly shines with a complete finish of brilliant nickel. We are sincere in considering it the handsomest Oil Heater ever mounted.

GLAZIER STOVE COMPANY, Chelsea, Michigan

CHICAGO AGENTS

W. D. SAGER, 38 Michigan Street.

FRONT RANK STEEL FURNACES



are the peer of all Steel Heaters

NO DEALER SHOULD BE WITHOUT THEM

Front Rank Furnaces have been on the market for nearly twenty years, and at present, are being sold in every State in the Union where furnaces are used. **We guarantee them** to burn hard or soft coal, wood or coke, besides which **Any Hot-Water** combination can be used in the **Front Rank**

Write for Our 1906 Catalogue.

Handsomely illustrated—containing pertinent and pithy furnace facts.

HAYNES-LANGENBERG MFG. CO.

ST. LOUIS, MO.

RICHARDSON & BOYNTON CO.

Manufacturers

Warm Air Furnaces

Hot Water and Steam Boilers

Tank and Laundry Heaters

SEND FOR LATEST CATALOGUE

NEW YORK CHICAGO BOSTON

BOYNTON

Oldest firm in the business with goods up-to-date—Best on the market

FURNACES

All Kinds

Made of Cast or Wrought Iron or both.

Portable or Brick Set

Best Known Made Assortment Terms Seller

Send for Catalogue on Heaters and Furnaces.

The Boynton Furnace Company

147-149 Lake St., CHICAGO 207-209 Water St., NEW YORK

AN

Indelible Impression

OF

RELIABILITY

Is made by Heaters bearing the Name

MAGEE

because in fifty years not one has failed through fault

The model here illustrated shows a Wrought-iron Furnace with Sectional Cast Pot. Quick and Active Heating Qualities. Its various numbers will supply Twelve Thousand to Thirty-five Thousand cubic feet capacity.

Descriptive Booklet on Request

MAGEE FURNACE CO.,
BOSTON, MASSACHUSETTS

Western Agents
Lott-Burton Co., 86 Lake St., Chicago, Ill.

ACME GAS STOVES AND RANGES

Built on scientific principles by skilled craftsmen in the most thoroughly equipped factory in the world. They represent the ACME of GAS STOVE and RANGE quality.

CATALOG NO. 44 FOR A LINE

H. ADLER CO., CARNEGIE, PA.

Manufacturers of ACME Gas Appliances

Western Office and Warehouse, 1225 W. 10th Street, Kansas City, Mo.

The Gilt Edge Badger Furnace

is designed to give

Greatest Efficiency and Economy Possible

This is accomplished largely in giving it a high dome and a large radiating surface. Other furnaces of somewhat similar form have radiators not more than 16" in height; this furnace embodies one from 20" to 24". The combustion chamber is exceedingly large, as the body, containing the coal spout, is comparatively small. The products of combustion liberated are, therefore, compelled to ignite and burn before passing into the radiator, thus utilizing a great amount of heat that is otherwise wasted.

For Hard Coal Exclusively

Many other unique features will be discovered by a perusal of

our catalogue, which is sent free.

R. J. SCHWAB & SONS CO.

THE FURNACE MEN

MILWAUKEE :: :: :: :: WISCONSIN

BOOMER FURNACES

aren't like other Furnaces.

BOOMER Furnaces are heavy—but the weight is in the firepot and dome; they are powerful heaters—but easily controlled; they burn very little coal—but give maximum amount of heat; they will give your customers absolute satisfaction—but are sold at reasonable prices.

Why not sell the BOOMER Furnace?

Ask for our interesting catalogue and discounts—to-day.

We have an attractive proposition to offer live furnace dealers in unoccupied territory.

We also make Boomer Steel Ranges

The HESS-SNYDER COMPANY

Manufacturers ***Massillon, Ohio***

The American Furnace

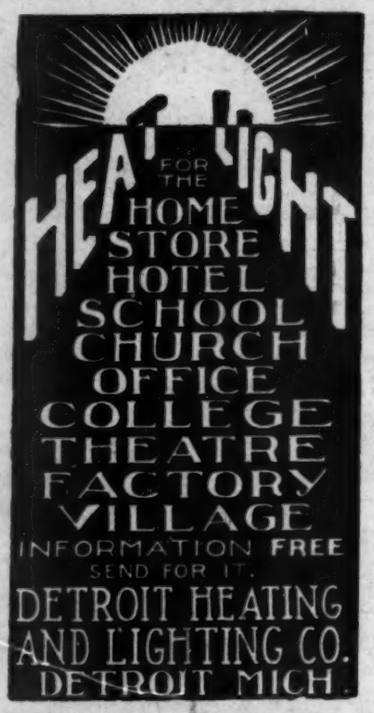
Combines DURABILITY, EFFICIENCY and ECONOMY—while as regards LARGE SALES there is no better furnace on the market

THE AMERICAN FURNACE supplies, correspondingly, considerably more heat with a given amount of fuel than any other furnace.

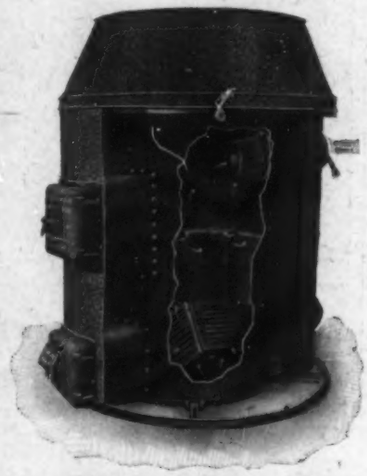
Write for Particulars

American Furnace Co.,

ST. LOUIS, MO.



PROGRESSIVE DEALERS



Stanton Upright Steel

Notwithstanding the fact that Manufacturers who are not equipped for making a steel Furnace are using every effort to prevent it, progressive dealers are rapidly getting in line with the fact that STEEL FURNACES when properly constructed are a great improvement over the old cast iron kind.

We are pioneers in the manufacture of Steel Furnaces, and our long experience puts us in position to offer you the best.

Write for prices and description of our full line.

THE STANTON HEATER CO.

MARTINS FERRY, OHIO

W. R. WILLIAMS,
ANTIOCH, ILL.,
WRITES:

"Please take out my want ad. in THE AMERICAN ARTISAN, the publication of which secured me a tinner the first issue. I have received many letters throughout this country. Am satisfied THE AMERICAN ARTISAN covers an enormous scope of territory."

MONCRIEF

Warm Air Furnaces

Combine SIMPLICITY, DURABILITY, ECONOMY and CLEANLINESS IN USE

SPECIALTIES
- All Cast Iron
- Monorief Duplex Grate
- Large Radiating Surface
- Top Return Flue
- Double Fire Pot
- Large Grate Surface

HENRY & SCHEIBLE CO.

6-8-10 Long Street, CLEVELAND, O.

Sales Agent—J. C. KIMMEL, 5314 East 15th Street, Kansas City, Missouri

THE PROPER CONSTRUCTION

Our entire time and energy—backed by a practical heating experience of over 56 years—are devoted to turning out "THATCHER" Furnaces in the right way.

To accomplish this we maintain the most modern foundry equipment and a large force of skilled workmen.

The unequalled success "THATCHER" goods meet with everywhere proves the success of this policy.

Our prices are right, too.

Write to-day for latest CATALOGS

THATCHER FURNACE CO.,

110-112-114-116 BEEKMAN STREET
NEW YORK

THE NEW

LION FURNACE

Now Ready for the Trade

Can Use Hard or Soft Coal

Simple in Construction

and a Successful Heater.

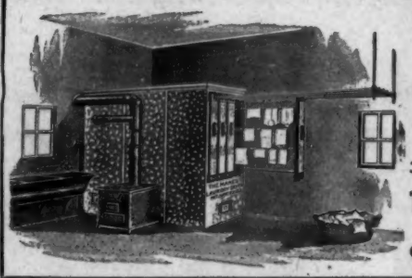
Our Catalogue gives you full information.

Write for it TO-DAY

YOUNGSTOWN FURNACE & SUPPLY COMPANY
YOUNGSTOWN, OHIO

Address all western inquiries to our Western Distributors, COOK & VAN EVERA, 38-40 Lake St., Chicago, or to ROOD & McINTYRE, Kansas City, Mo., our Distributors in Southwest.

The "Manest" Family Clothes Dryer



A Laundry Stove and Drying Cabinet Combined.

One fire boils the clothes, dries the clothes and heats the irons. Good profits to agents.

THE MANNEN & ESTERLY COMPANY
Successors to MANNEN & ESTERLY
CLEVELAND, OHIO

There Are No Better

FURNACES

Than those made by the

GRAFF FURNACE CO.
of New York City

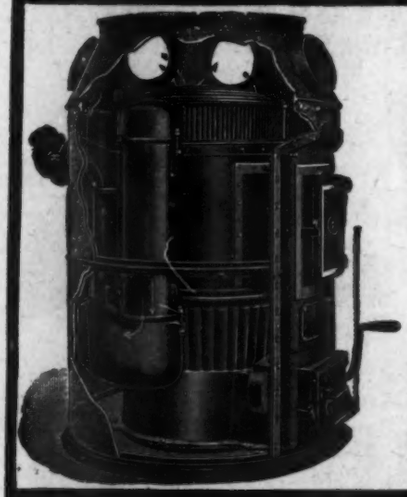
In successful use for 25 Years.

Largest variety of styles and sizes.

For Western trade we have established a warehouse and sales agency at

Decatur, Ill.

C. M. BARNETT
SALES AGENT

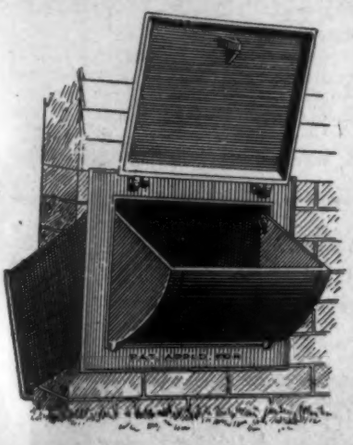


CAN you afford Mr. Dealer, to risk your **business reputation** by recommending cheap, inferior and unsatisfactory furnaces? Particularly as such a course is entirely unnecessary when you can secure an agency for

FLORAL CITY FURNACES

which are made with perfect castings by skilled workmen under careful supervision.

Monroe Foundry & Furnace Co., Monroe, Mich.

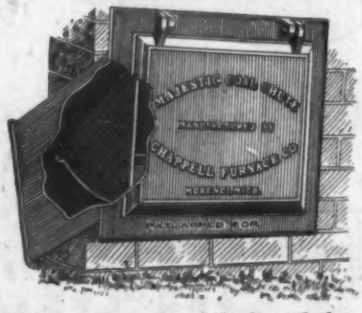


THE MAJESTIC

Coal, Wood or Vegetable

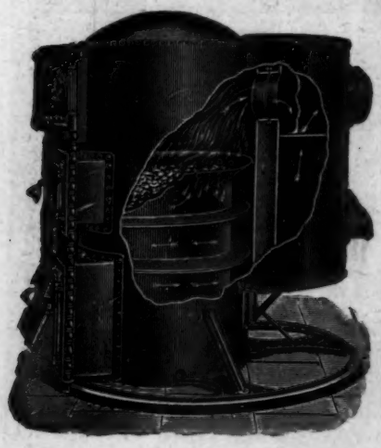
CHUTE

Fills a long felt want. Is burglar proof. Saves many broken windows. Is a splendid seller. Write for prices and secure agency at once.



Showing Door closed flush with the wall, and automatically locked on the inside.

THE CHAPPELL FURNACE CO., Morenci, Mich.



Weir All-Steel Gas and Soot Consuming Furnace

is the heaviest steel furnace made.

It is absolutely gas and dust tight—a great heat producer and fuel saver.

Meyer Furnace Co.
PEORIA, ILL.

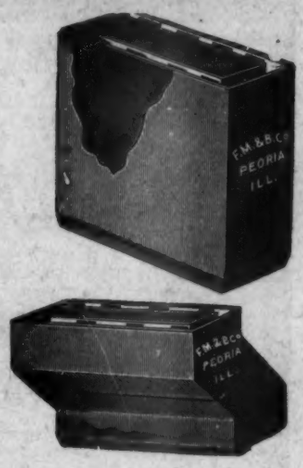
Handy Furnace Pipe

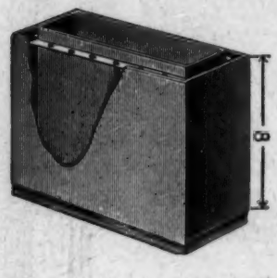
is the safest made.

It is easiest to put up.

Its great value at small cost makes it profitable for both retailer and consumer.

F. Meyer & Brother Co.
PEORIA, ILL.





The Michigan Safety Furnace Pipe Company

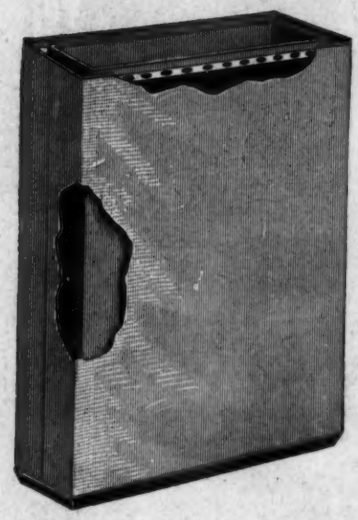
Corner Brooklyn and Abbott Sts.
DETROIT, MICHIGAN

Manufacturers of Safety Wall Pipe, and Single Pipe and Fittings, in both tin and galvanized iron.

Send for our 1906 Catalogue. **Our new factory insures you prompt delivery.**

We belong to no combination. **Don't get our name confused with other manufacturers.**

GREEN FURNACE PIPE



Our Double and Single Furnace Pipe and Fittings are easily and quickly put together because they are perfectly made by skilled mechanics. We would suggest that you find out the freight rate on this class of goods from Des Moines to your station and compare it with that from any competing point. We have an immense stock and can always ship your orders promptly. We shall be glad to receive your request for our catalogue and discounts.

Green Foundry & Furnace Works
DES MOINES, IOWA

The Champion
Hot Water Combination Boilers
"They Fit Any Furnace"

(Base section when used without ring sections)

Combination heating for residence or buildings excells all others. The **Champion** boilers are adapted for the use of **all kinds** of fuel, and are tested to 100 pounds hydraulic pressure before leaving factory. They are **guaranteed** not to leak.

The Champion will increase the heating capacity of any furnace, and reduce coal bills as well. They will increase the business of every dealer who handles them.

FRANK D. STOLZ,
156 Webster Ave. **CHICAGO**

THERMOSTATS

SPRAGUE DAMPER & VALVE REGULATORS Non-Electric.
10 years in use. Thousands giving satisfaction; they are guaranteed; also Sprague Electrics, and automatic checks for Steam, Hot Water and Hot Air Heaters of all kinds.
HOWARD THERMO. CO., - **West, Oswego, N. Y.**

L. SHIREMAN,
Springfield, O., writes:
"I answered an advertisement I saw in THE AMERICAN ARTISAN and got a good job. I can't do without your paper."

REGISTERS : FACES . BORDERS

in every conceivable style, shape, design and material, made by

THE FERROSTEEL CO., Cleveland, Ohio

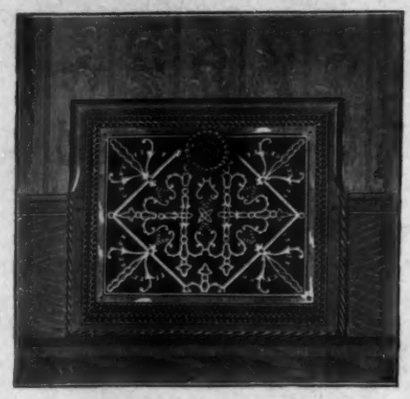
FERROSTEEL CAST—Mechanism and Finish Perfect, Designs Artistic and Attractive.

FERROSTEEL MODIFIED STEEL—Face Cast, Bottom Wrought Steel, Air Capacity Large, Designs all Styles.

FERROSTEEL WROUGHT STEEL—The most rigid made. Air Capacity greater than all Other Plain Lattice Wrought Steel Goods.

New Catalogue Just Out—FREE. Prices Rock Bottom. Our Record is Our ☞

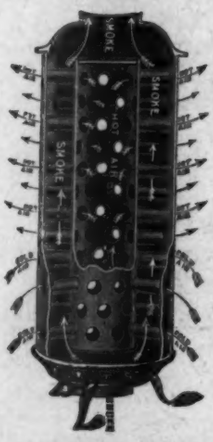
Persistent Superiority
Persistent Superiority
Persistent Superiority
Persistent Superiority
Persistent Superiority
Persistent Superiority



THE SCHWAB SIDE WALL REGISTER

THE SCHWAB SIDE WALL REGISTER AND REGISTER BOX, NEATEST IN DESIGN, NOISELESS IN OPERATION, SUBSTANTIAL IN CONSTRUCTION, A FACTOR IN MODERN METHODS OF HEATING RESIDENCES FULLY ILLUSTRATED IN OUR REGISTER CATALOGUE. SENT FREE ON APPLICATION.

R. J. SCHWAB & SONS CO., The Furnace Men **Milwaukee, Wis.**



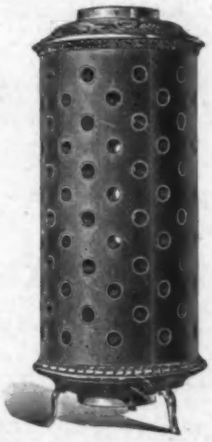
Save ½ Your Fuel

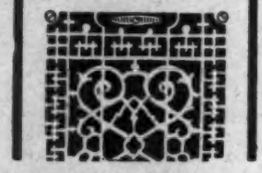
BY USING THE

ROCHESTER RADIATOR

Satisfaction guaranteed or money refunded.
Over 100,000 of them in use.
Fits any stove or furnace.
Price from $2.00 to $12.00.
We make the original and genuine "ROCHESTER RADIATOR."
We do not sell to catalogue houses.
For Hard or Soft Coal, Wood or Gas.
We refer all inquiries, to you from your town, when you carry a stock of our Radiators.
We guarantee our radiators not to interfere with or choke the draught, they are easily cleaned.
One square inch of radiating surface directly over the hot current is better than six in a drum, or side heater, with perpendicular tubes.
Write for descriptive catalogue and prices.

ROCHESTER RADIATOR CO., 120 Furnace St., Rochester, N. Y.





Independent Semi-Steel Registers

All the advantages of steel
All the advantages of cast iron
Our new catalogue should be in your hands

Independent Register Co.
Cleveland, O.

The Auer

is the one register on the market that affords a foot rest and foot warmer. It also ventilates the room. It has adjustable valve and is the most ornamental register made. The Auer is guaranteed to be free from all defects in either material or workmanship.

Auer Register Co.
403 Long Avenue Cleveland, Ohio

THE KLONDIKE INCUBATOR CO., Des Moines, Iowa,
Write: Please take our advertisement out of your paper for 7-foot Robinson Cornice Brake. We are getting too many answers.

ROUND OAK
STANDARD OF AMERICA

We have set forth on several occasions in these short talks to the trade the necessity of SEEING the incomparable Round Oak Chief steel range in order that the good material and fine workmanship we put into it—its trim and beautiful appearance and its general superiority may be rightly valued.

A sample Chief sent to a firm who appreciate the highest quality at a reasonable price will sustain our contention that it is—

The range of the year.
absolutely incomparable
We mean it! ! !

A sample will be promptly shipped but only on your order.
Book of the range sent on request.

ESTATE OF

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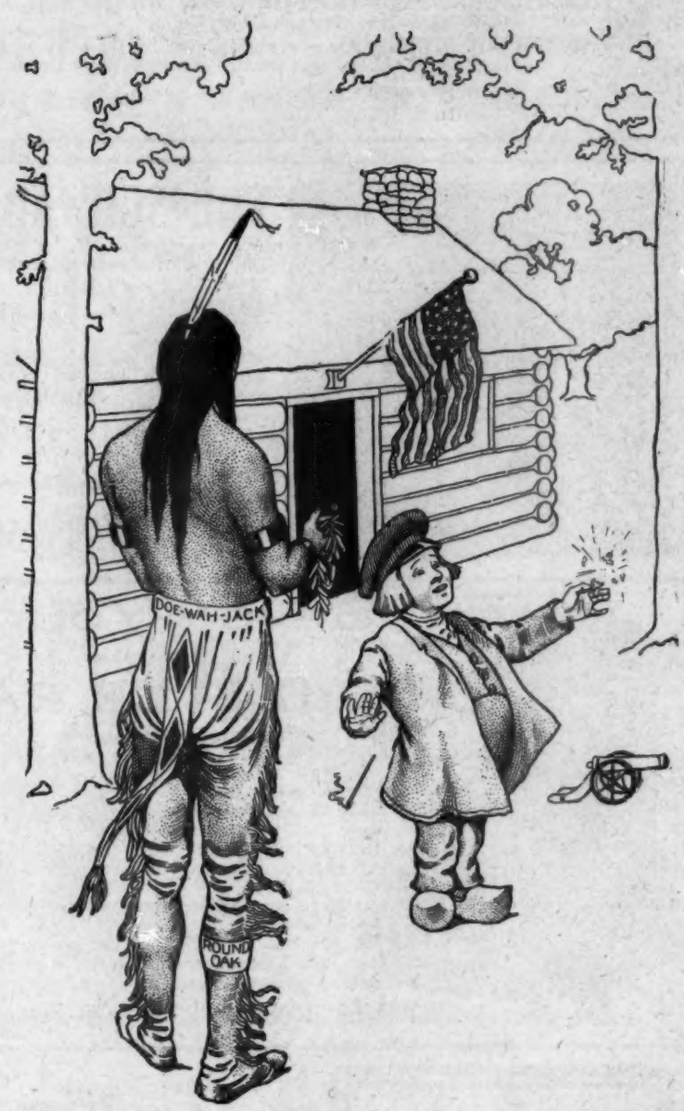

"Doe-wah-jack, dot round ting vas shust as hot as ein Round Oak stove."

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ROUND OAK
DOE WAH JACK
STOVES RANGES FURNACES

ESTABLISHED 1880.

THE AMERICAN ARTISAN & HARDWARE RECORD

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CHICAGO, JULY 7, 1906.

Notice is hereby given that Walter F. Wollensak, *alias* W. F. WALLACE, is no longer in the employ of The American Artisan, and is not authorized to receive or receipt for any money for this journal.

Look for the Good.

THIS IS a time when charges of graft are made on every hand, when wrongdoing has come to be expected from almost every holder of public office, when individuals long trusted and honored have been proved to be untrue to their trust, and at such a time it is very easy to become pessimistic and in so much that is bad fail entirely to see what is good.

At such a season it is very refreshing to have attention called to the optimistic side, as was recently done by President Angell in his baccalaureate address at Ann Arbor, Michigan, in which he said that the present reaction of indignation against the public iniquities which have been exposed has carried the great mass of the people to a moral height which they seldom have attained. The speaker showed that the recent exposure of fraud and graft was but an indication of the moral soundness of the majority of the people of the country. His exact words were: "A more sane and wholesome state of public feeling has never been seen."

A strong and urgent appeal was made to the college graduates to line themselves upon the side of right and honor. The temptation to get rich quick should be overcome, and in its place should be lodged the determination to succeed by hard work and honest methods. Right must prevail, and in the end would be sure to be victor. One sentence of President Angell on this line is very striking. He said: "The lawyer of fair ability, of industry and of character is sure to be recognized and respected in due time; the physician of intelligence, of fidelity to his patients, of pleasing address and of good morals is certain to be in demand and to bind to him the families he serves by the dearest ties; the editor who loves veracity more than sensationalism, and purity in his columns more than the ill gotten gains of salacious advertisements, is assured of influence in a decent community; the man on whom political office is thrust by his fellow citizens because of his intellectual and moral worth dwells in an atmosphere quite above the vulgar and nauseous temptations that captivate the professional office seeker, and when he finishes his career leaves an honored name behind him."

The speaker struck the right keynote, and his words will find an echo in the hearts of thousands upon thousands of our law abiding, self respecting citizens. Because some mud has been stirred up it is no indication that the whole stream is impure. Whittier's words are as true to-day as the day he first wrote them:

Age brings me no despairing
Of the world's future faring;
In human nature still
I find more good than ill.

Our Exports for May.

EXPORTS of manufactures from the United States May, 1906, were larger than in any preceding month in the history of our export trade, aggregating over 56 million dollars, an average of more than two million dollars for each business day of the month. For the month of May alone they are 8 million dollars in excess of those for May of the preceding year, and for the eleven months ending with May aggregate 58 millions more than in the corresponding months of the previous year.

These figures are official, coming from the Department of Commerce and Labor. A comparison of the exports of manufactures in the fiscal year 1906 with those of earlier years shows that the growth in the last decade has been much greater than that of any earlier decennial period.

Under the general head of iron and steel, in which the increase during the ten months ending with April amounted to about 20 million dollars, locomotives show an increase of 2½ millions; metal-working machinery, nearly 2 millions; builders' hardware, 1¾ millions; sewing machines, about 1 million; electrical machinery, about three-quarters of a million; typewriters, nearly a half million; pipes and fittings, over a half million; wire, about a half million; structural iron and steel, a little over a million. Agricultural implements show an increase during the same period of about 1½ million dollars.

Imports of manufacturers' materials also show a marked growth during the year. They aggregated 53 million dollars for the month of May, 1906, against 45 millions for May of last year, and during the eleven months ending with May, 1906, were 541 millions, against 483 millions in the corresponding period of the preceding year. This growth in the importation of manufacturers' materials is quite as strongly marked as that in exports of manufactures. For the twelve months ending with June the total value of manufacturers' materials imported seems likely to aggregate approximately 590 millions, or nearly as much as the value of manufactures exported. A comparison of

this figure of manufacturers' materials imported in 1906 with the statistics of manufacturers' materials imported for consumption during earlier years shows for 1896, 281 million dollars; for 1886, 223 millions; 1876, 117 millions; 1866, 129 millions; and for 1856, 80 millions. Manufacturers' materials formed in 1856 26 per cent of the total imports for consumption; in 1866, 30 per cent; in 1876, 25 per cent; in 1886, 36 per cent; in 1896, 37 per cent, and in 1906 will approximate 47 per cent of the total imports.

Manufactures exported in 1906 exceeded by about 60 million dollars the value of all manufactures imported, even including in the latter those partially manufactured articles brought into the country for use in manufacturing. Prior to 1898 the imports of manufactures were always greater in value than the exports of manufactures; since 1898 the exports of manufactures have exceeded imports in value, except in a single year, 1903. In 1860 the value of manufactures imported was five times as great as the value of manufactures exported; in 1870, about three times as great; in 1880, about two and one-half times as great; in 1890, about twice as great; and in 1898, as above indicated, the exports of manufactures for the first time exceeded the imports of manufactures and have, with a single exception, so continued to the present time.

On Learning a Trade.

SHOULD a young man learn a trade, is a question that has been asked many times, and the first impulse in answering would be to reply in the affirmative, but upon mature deliberation there might appear reasons against such an answer.

The welfare of the young man, his success in life—whether he shall rise and make a name for himself are all considerations that must be taken into account in giving the reply. If the young man is content with being a plodder and follow one trade all his life—whether it be as a carpenter, machinist, engineer, printer, plumber, stonemason, etc.—he may be assured of an income of $1,000 a year, but in ninety cases out of a hundred the trade is the end of the man who goes into it.

There are several reasons for this, the first one being that a young man learning a trade usually has to start young and before he has had time to finish his education. Some may say that the finishing touches could be put on by home study and night school, but in the majority of cases this would not be done, as the young man coming home from his work would be too tired or not inclined to take up study then. Then in taking up one line of work, in order to make a success of it, one's whole thought and time must be given. Perhaps one in a hundred learning a trade might broaden himself and prepare for something better by general study of subjects not appertaining to his trade, but that would be about the average.

Then, again, the young man learning a trade does not have any planning to do, but just follows one routine day after day, content to learn just what is necessary for his particular line and not bothering about acquiring information on any other subject.

It is good to have a trade, something that a man can always fall back upon, but the ambitious young man should remember that the chances are if he chooses one he will have to content himself with what that trade offers when he enters it. There are exceptions, of course, but taking it as a whole, this will be found to be true.

Another Retailers' Victory.

THE RETAILER has won another decided victory in the action recently taken by the Conference Committee of Congress to the Senate amendment in regard to furnishing Senators and Representatives with the names of persons on the rural routes. It was at first proposed that such a list might be given to Senators and Representatives, but the action taken by the Conference Committee will result in postmasters continuing to be prohibited from giving to any one the names of those to whom mail matter is distributed.

The catalogue houses are therefore deprived of a great advantage that they hoped to obtain if such an objectionable feature had been allowed to creep into the annual Post Office Appropriation Bill.

The amendment, which was ultimately turned down, was as follows:

"The Post Office Department shall make no regulation which will prevent any postmasters or any rural route carrier from furnishing a Senator from a State the names of those to whom he delivers mail in that State, nor to a Representative or Delegate the names of those to whom he delivers mail within the district or territory so represented."

It is very easy to see, had this amendment been allowed to stand, how the catalogue houses would have easily devised ways and means whereby they could secure these names, and thus have an additional weapon with which to injure the retailer. Too long have the catalogue house pirates been allowed to exert their baneful influence, and there is cause for congratulation that the latest move to benefit them has been checkmated.

RANDOM SKETCHES.

BY SIDNEY ARNOLD.

Did it ever occur to you that looking into store windows was quite an education? E. S. Willard in his strolls about the city is an inveterate looker-in at shop windows. He declares that to be an occupation as profitable and interesting as visits to an art gallery or museum, and not nearly so fatiguing. On this subject he said:

"We talk of the educational influence of visits to picture galleries, to collections of art and museums in general; but half the people who go to them do so in a perfunctory, careless fashion because they are impelled by a vague sense of duty and often they come away with very little more than they took with them. But every business thoroughfare of a great city is a delightfully entertaining art gallery, museum and university in one, if you are of a mind so to regard it; and looking in at shop windows is usually due to an eager curiosity that makes it an unconscious benefit.

"When you stop to consider what one may see in a leisurely walk of half a mile or so along a street of

shops you become aware of the fact that a shopping district is a sort of institute of allied arts, sciences and inventions; and the man who can not get some ideas or impressions of value out of a judiciously arrested promenade must be a dull observer to say the least.

"I have derived an immense amount of pleasure and benefit from the inspection of shop windows. In fact, it is one of my ways of keeping in touch with the world's æsthetic and practical progress. You can judge of the character of the community much more intelligently from a study of its shop windows than you can from the inspection of its art galleries, public libraries and kindred objects of local pride; for these latter represent the energetic spirit of the cultured few, or may even be the result of one man's generosity. Shop windows, on the contrary, certify the general taste or lack of it; they photograph the people themselves; for the grade and tone of the shop displays almost invariably correspond with the grade and tone of the community that encourages them. I have persuaded myself that I need no other evidence than shop windows afford me of the great improvements steadily going on in this country. I have noted very remarkable changes in the course of the sixteen years that I have been making regular tours among the cities of the United States. What I refer to are the increasing evidences of taste, refinement and general educational betterment.

"There is scarcely a shop window but gives proof of the improvement going on, whether it be the setting of a jewel, the binding of a book, the arrangement of a bouquet of flowers, the grouping of fruits, or in the way that practical articles or things of commonplace utility have been given an ornamental or attractive value. I think the shop windows of to-day in America's chief cities are the most beautiful in the world.

"But it is not necessary that one should moralize or philosophize. The positive pleasure of looking in shop windows is a sufficient justification of the practice."

* * *

How can the retail merchant in the country get better ideas, get new methods that will help him increase his business and at the same time be of assistance to him in combating the catalogue house evil?

A pretty large question, but one that is of great importance to every merchant. It is a well-known fact that in many of the larger cities of the country teachers in the public schools are given certain days of the school year in which to visit schools in other cities for the purpose of obtaining new ideas or methods pertaining to their work. The result of this has been that the schools all around have been benefited and the visitor and the visited have each learned something.

Would not such a plan, if adopted by the retail merchant, have the same beneficial result? Surely it would. Many dealers take advantage of the information the traveling man can give them as to various phases of business, and gets new ideas which when utilized prove of great advantage to them. As to the last part of the question regarding combating the catalogue house evil, there are many things that can be and must be done in order to do that. Among them is judicious advertising, whereby the consumer can be made aware that at home he can secure just as good, and often better, articles at less cost than by sending away for them; also the retailer must see to it that he meets the figures of the outside catalogue house, and that he has the line of goods the customer is calling for.

Many other things will suggest themselves to the wide awake merchant, and he must leave no stone unturned to not only protect himself, but to better his condition.

* * *

A prominent lawyer, interested chiefly in the ethical side of corporation management, declares that Wall street folks and corporation managers generally are obviously ignorant of the frequency with which they violate the common law. He maintains, for instance, that a director has no right to withhold from stockholders any information affecting the value of securities and use it to his own advantage in the market. A stockholder who could prove that one or more directors had done so, he believes, could recover from them the amount of any loss suffered through his own lack of information. A Wall street man to whom this lawyer declared his beliefs said: "You may be right, but it is the almost universal practice of directors to take personal advantage of their information without sharing it with stockholders until afterward, and if the practice were stopped many eminent gentlemen would find their incomes reduced."

* * *

Mr. Frank Kemmerer of Gowanda, N. Y., tells the following trade story: One of his customers ordered a new top for his cooking stove. When it arrived Mr. Kemmerer sent him word to call and get it. This customer lives twenty miles in the country from Gowanda. One bright day his rural friend, in company with a son, called, took the castings, paid for them and started out to "See the town." After viewing the town through glasses of various colors and sizes but remembering their long drive home the possessors of the castings thought it would be a good plan to start on their journey.

Their horse had imbibed nothing stronger than the pure spring water for which the Mowhawk Reservation is famed. This water is also highly invigorating to man and beast—so Mr. Kemmerer says—so that the return trip was begun with considerable speed. When near the edge of town the horse became unmanagable and ran away throwing the purchasers of the casting into a mill pond. They were promptly rescued—for nobody is denied necessary aid in Gowanda. When the old gentleman was straightened up he addressed his rescuers as follows:

"Twenty miles we have drove
To get a top for mother's stove;
Thirty dollars it has cost,
Now horse and wagon—all are lost."

At this juncture Mr. Kemmerer was called away from the crowd to receive the pay and the praise for a Good Luck gas range he had sold on trial, and there being no other shorthand writer present the balance of the poem was lost. But Mr. Kemmerer is happy to offer this one verse as evidence that there is poetry in the stove business.

News Siftings

A new two-story foundry, 80 x 150 feet is being built by the Home Stove Works, Chicago. A new power house will also be built and new equipments will be furnished for both buildings.

The Comstock-Castle Stove Company of Quincy, Illinois, have removed their Chicago warehouse from 20 South Canal street to 96-98-100 South Desplaines street, where they will have better shipping facilities and much additional space.

The Fanner Manufacturing Company, Cleveland, Ohio, are preparing to build two enormous foundries, one for gray iron castings and one for malleable iron castings. Their business is steadily increasing and they are cramped for room.

A numerical mind reader by which your age can be told, is a novelty gotten out by the March-Brownback Stove Company, of Pottstown, Pennsylvania. It consists of eight pieces of cardboard 4½ x 6 inches, and by an ingenious arrangement of figures the information sought for is obtained. This will doubtless prove very interesting in many homes.

An attractive blotter is that just issued by the Nickel Plate Stove Polish Company, Chicago, manufacturers of the famous Black Kid stove polish. Two stoves are shown, one highly polished and attractive looking, and the other a great contrast by its dull appearance. Two colored gentlemen are holding the following conversation on the subject: "Say, Sam, what kind of polish did you use on dat stove?" And the answer, of course, is, "Why, nigga, I done use Black Kid polish, 'course."

UNCLE SAM DAMPERS.

The Uncle Sam damper, manufactured by the Sayre Stamping Company, Sayre, Pennsylvania, has long been well and favorably known. It is stamped from the best nickeled steel and constructed to stand the greatest strain. In a recent letter to the trade the manufacturers state that they are now making up their yearly stock, and as the prospects are that their factories will be crowded to their fullest extent later in the season they ask customers to let them know early what their probable requirements will be for the coming year.

Write the company for their revised price list, and when writing kindly mention THE AMERICAN ARTISAN.

MAGEE RANGES AND HEATERS.

The Magee Furnace Company, of 38 Union street, Boston, Mass. (Chicago representatives, the Lott-Burton Company), have issued the following letter to the trade:

With pardonable pride we refer to the record-breaking shipments of Magee ranges and heaters (in carload lots) that we have been making the past month—to say nothing of a multitude of smaller shipments—this is suggestive of a brisk fall trade. Good.

A word about present conditions. Gas ranges, gas attachments, gasolene and blue flame oil stoves are well worth pushing hard now and during the next two months, not only for whatever profit they may bring, but because a good trade in them will help wonderfully to get the fall trade well started.

Thus the less profitable end may be to help the sale of coal ranges on which you make a greater profit. If a coal range, alone or with gas oven attachment, can be displayed in conjunction with the summer specialties—so much the better, it all counts in the fall.

Another point worth attention is the distribution of a card or circular calling attention to the necessity of cleaning and repairs. This will often bring up the subject of installing new apparatus in place of old or inadequate equipment—frequently such a circular means several profitable contracts.

We beg to congratulate you on the promising fall prospect, and sincerely trust that the advertising we have been doing has been called to your notice in other ways than by our mailing list.

STERLING AIR HEATING RADIATOR.

A money maker for dealers, is the claim of the Sterling Air Radiator Company, 60 Wabash avenue, Chicago, for their air heating radiator, an illustration of which is given herewith.

This radiator is easily attached to any stove, range or furnace using any kind of fuel. The manufacturers claim for it that it doubles the heating capacity or saves 50 per cent of fuel expense; also that it insures warm floors, uniform temperature, continuous circulation, comfort and health. The large amount of heat that usually escapes up the chimney and is lost is saved and utilized by the radiator. It can be used in adjoining room or in room above stove with excellent results, and being constructed on scientific principles it does not interfere with the draught.

The Sterling.

The manufacturers will be pleased to send full description and terms to those writing and mentioning THE AMERICAN ARTISAN.

H. ADLER COMPANY'S CATALOGUE.

Catalogue No. 44, 1906, issued by the H. Adler Company, Carnegie, Pa., manufacturers of Acme gas stoves, ranges, cookers, ovens and hot plates, has just come to hand and is most complete and interesting.

There is a splendid illustration in the front of "The House of Adler" devoted to the exclusive manufacture of gas appliances. This is followed by many illustrations of the different styles of Acme gas stoves carried, and also cuts and descriptions of the Carnegie, Continental, Lustre, Saturn, Heidelberg, Tunis and Duquesne gas stoves manufactured by the company.

A very large variety of gas ranges is also shown, and regarding these the announcement is made that they are all full asbestos lined and tightly cemented,

so that no air whatever can come between the asbestos lining and iron, thereby avoiding condensation between then, which would rust the oven in a very short time.

Adler's pressed steel ladder is shown supporting seven men, and the following description is given of it: "The Adler Pressed Step Ladder, with the exception of the steps, is made of 20 gage open hearth steel sheets, reinforced with heavy drawn steel bead all around; this bead gives a panel effect and presents a very handsome and solid appearance, besides making the Ladder rigid and strong. After the ladder is completed it is finished in a beautiful maroon enamel, which makes it absolutely rustless. The steps are made of No. 1 cotton or basswood. While experimenting, we used metallic steps of almost every conceivable description, and while we could get them strong enough, they would quickly wear through the galvanized surface and rust; then, too, they would soon become slippery. We have adopted the wooden steps as the most serviceable and satisfactory in every way. The steps are put into the stiles with eyelets, and although the possibility of one being broken is very remote, should such a thing occur, the step could be replaced by anyone; an artisan would not be required."

The H. Adler Company will gladly forward the catalogue and give any desired information to those writing and mentioning THE AMERICAN ARTISAN.

STOVE SALESMANSHIP.

Many good ideas were given in the address on "Stove Salesmanship," delivered by H. N. Joy of the Joy Manufacturing Company, Toronto, at the convention in that city of the Retail Hardware and Stove Dealers' Association of Ontario. The address, in part, follows:

There is a difference in stoves. Stoves ought to carry a profit, and if they do not it is the merchant's fault. Some one has said that stove salesmen are born, not made. Although there are clerks who never will become good salesmen, yet it is possible for every clerk, if he will apply himself, to become a good salesman, and he should not be discouraged by statements of this kind.

It is not my purpose when discussing this question to speak of any particular stove. The question that concerns you is to sell your stove. If I were to take a text for a stove sermon I would take this one: "Know your stove, show your stove; know your customer, show your customer."

Usually a person comes in and asks to see a stove. In a great many cases they are simply pointed out a stove and told the price. It is very rarely indeed that business is done in this manner. How many stove salesmen know their stoves? One way to know them is by reading literature on the stove. Then take the stove apart and see if it agrees with the manufacturer's description, and if it does not note the points wherein it differs. A stove salesman who does that is fairly well equipped to talk his stove.

I remember once engaging a new clerk. I had been handling the Crescent bicycle, and made many sales of it. This young man when he came into my store said he could not sell the Crescent bicycle because he had been selling another make that was better. When his first customer came in he made a fizzle of it. I told him the Crescent was the wheel I sold, and that was what he must sell. Some other salesmen are like that boy, and do not make good salesmen.

There is something in the saying that a man can learn to love a woman. I believe that, although I have never had experience. I believe, also, that man can learn to love a stove. If he does not learn to love his stove he will not do his best as a salesman. Of course, when I say love you must not take it in the same sense as loving a woman, but you must have confidence in the stove you are selling.

He must know his competitor's stove. How shall he get this knowledge? By reading all about it, by hearing about it, and by listening to remarks that are made about it by those with whom he comes in contact. I call this storing up information which should not be used except on special occasions, and then only with a great deal of wisdom. I think it is better not to refer to your competitor's stove unless you are compelled to do so. After referring to it get away from the question just as soon as you can. Never speak disparagingly of your competitor's stove. Why? Simply because your opinion is discounted. You will pardon a personal reference. Last fall I called on a friend of mine to take a meal. The lady of the house said she was going to get a malleable range. After speaking of different ranges she asked my opinion of them, and then remembering that I was making a malleable range she laughed at asking me such a question, so you see that my opinion, had it been given, would have been discounted. Just as soon as you speak disparagingly of your competitor's goods your own are discounted. If you want to advertise his goods, why, pull them to pieces.

Another requisite of the good stove salesman is to know his customers. We hear a great deal about studying human nature. There is such a thing, and the stove salesman must be to some extent a student of human nature. He should be able to size up his customers and to make up his mind just what kind of a stove is required. You cannot always tell by their dress or by their financial position whether they want to buy the best stove you have or not. It may be that they are comparatively poor, but have been saving up for a long time, and a safe plan to follow is to show the best stove first, as it is well to be on the safe side.

The successful salesman will show the best stove first, but showing the stove is not simply quoting the price. Showing a stove is taking it apart and giving a reason why these parts are so made. I remember when the oven door kicker came in and took every one's fancy. But we do not need to confine ourselves to oven door kickers, which, by the way, are not in use in the drop doors now used. Leave the price until the last. If you quote it first perhaps the customer will become discouraged, but if you show your stove and tell him what others have said about it you will no doubt make a sale. Perhaps the best stove salesmen of them all are the peddlers. The retailer could learn a great deal from these men and from catalogue houses and departmental stores.

The manufacturers school their salesmen in this way: The salesmen go out into the country and make their headquarters at some central point. On Saturday night the salesmen meet at this point and spend Sunday in exchanging ideas and in schooling themselves in ways of selling. I am not, of course, advocating doing this work on Sundays. One salesman will get up and show the fault of the range and state every objection he has heard to it during the week. Another salesman then offers objections, and they are all explained away by the demonstrator of the stove.

I believe it is a splendid thing for the merchant to get his salesmen together and go over all the good points in the stove. The Simmons Hardware Company, St. Louis, has a school for its salesmen who have been in its employ less than a year, and for others who wish to avail themselves of the lectures. To-day they will take a square. How many hardwaremen here can explain the steel square? This man explains what the steel square means. The next day they take Stanley's levels and planes, or some other line, and explain what they are for and how used. This is done for one hour every day.

To be a successful salesman you must know your stove, show your stove; know your customer, show your customer. It is a good method for the manufacturer to bring out the different good points of his stoves in his trade paper advertisements, so that the merchant can instruct his salesmen. We try to do that, and I think every store manufacturer does the same thing.

THE AMERICAN ARTISAN AND HARDWARE RECORD is the only publication containing western hardware and metal prices corrected weekly. You will find these on pages 36 to 41 inclusive.

The Green Hardware Company has purchased the stock of John Berg of International Falls, Minnesota.

L. F. Bertrau & Company of Big Rapids, Michigan, succeed the firm of Bertrau & Quirk in the hardware business.

The George Polasky Company of Kalamazoo, Michigan, has been incorporated with a capital stock of $2,000, to deal in scrap iron.

Geo. L. Davis of the firm of Davis & Cook, Watertown, New York, level manufacturers, died on June 10 at the advanced age of 70 years.

The Otto J. Kuhn hardware stock of Belding, Michigan, has been sold at auction and brought a little more than seventy cents on the dollar. It was bid in by the Tuinstra Hardware Company.

Nichol, Makepeace & Company of Anderson, Indiana, hardware dealers, have been succeeded by the Nichol Hardware Company which has recently been incorporated with a capital stock of $20,000.

H. P. Krueger, M. W. Krueger and W. H. Krueger of Neenah, Wisconsin, have incorporated the Wm. Krueger Company and will carry on a general hardware business. The capital stock of the corporation is $25,000.

The Grand Rapids Hand Screw Company of Grand Rapids, Michigan, notify the trade that they have made an advance of 10 per cent in the price of hand screws, bench screws, clamp screws, vises, flask clamps and other tools in their line.

Herbert Montague of Traverse City, Michigan, will engage in the wholesale hardware business in that city. He will purchase an interest in the retail hardware stock of his brother, Joseph A. Montague, adding a wholesale department thereto.

The L. Conrad Hardware Company has purchased the hardware portion of the business of E. B. Atkinson & Company in Grainfield, Kansas. They will carry shelf and heavy hardware, stoves, tinware, paints, oils, sporting and athletic goods and saddlery and harness.

The Globe Ventilator Company of 203 River street, Troy, New York, have issued a neat little blotter with an illustration of their Globe ventilator upon it. They claim for this ventilator that it renders attics perfectly comfortable, cures smoky chimneys and thoroughly ventilates buildings.

The Hurty-Simmons Hardware Company of Minneapolis, Minnesota, will build a new seven story building and have awarded the contract for construction to the Wurster Construction Company, St. Louis, Mo. The building will be 125 feet on Fourth street and 148 feet on Second avenue.

The July issue of Graphite, the monthly publication of the Joseph Dixon Crucible Company, Jersey City, New Jersey, has been received. As is usual, this little publication is full of interesting reading matter, as well as giving a clear account of Dixon's graphite productions. A pleasing view is shown of the main portion of the Dixon engine room.

The Diamond Fabric Co. of America, of 1021-27 Grand street, Hoboken, N. J., is owner of the patent granted to M. R. Mangam, of Chicago, in 1903, on improvement in wire mattresses. The company will manufacture this wire link fabric for sale to spring bed manufacturers but will not manufacture the beds. Ten wire forming machines with electric power are being installed.

The Blick No. 3 box for rural free delivery is 6½x8½x19 inches, made of heavy galvanized steel and painted green. They have positive locking flag signal, automatic latch and are guaranteed water tight. They are manufactured by the Blick-Williams Company, Indianapolis, Indiana, who will be pleased to give further particulars to those interested.

The Jamestown File Works of Jamestown, New York, has been succeeded by the Rex File & Saw Company of Newcomerstown, Ohio, which has been incorporated under the laws of Ohio with a capital stock of $100,000. The new company expects to be in position to ship files by August 1 from the works at Newscomerstown, Ohio. The officers are David D. Lewis, president and general manager; M. Yingling, vice president; W. A. Beers, secretary; and S. B. Mulvane, treasurer.

OHIO SHOVEL & STAMPING COMPANY.

The Ohio Shovel & Stamping Company, which succeeded the Toledo Stamping Company, is now operating its new plant at Canal Dover, Ohio. In addition to the machinery formerly owned by the Toledo company, new machines and labor saving devices have been installed, so that the new corporation will be in position to turn out high grade goods. The officers are O. C. Eben, president and general manager; D. Defenbacher, vice-president, and Albert M. May, secretary-treasurer. Shovels, scoops, spades and sheet steel stampings will be manufactured.

GLOBE MFG. COMPANY'S NEW PLANT.

The Globe Manufacturing Company of Taunton, Massachusetts, are to be complimented on the energetic manner in which they set to work rebuilding after the destructive fire at their plant on January 16 last. In five weeks after the fire they had a number of machines running and turning out wire nails. At the present time they are turning out sixty different kinds of nails and they have excellent facilities for turning out high grade goods. They also manufacture Escutcheon pins and always carry a large stock of them. To give customers an opportunity to visit the new factory and its increased facilities and also to show their appreciation of the employes' work in rebuilding the factory, a field day was given on June 30. After the visitors inspected the plant and saw a wire nail mill in full operation, a special car was taken to Dighton Rock Park, six miles from Taunton. Here there was dancing and other amusements, and a clam bake was also served.

ROGERS WINS THE GRAND AMERICAN HANDICAP.

Two hundred and sixty-eight of the best shots in the country took part in the Grand American Handicap Tournament held in Indianapolis, Ind., June 19-22. This event was attended by shooters from all over the country. The great event of the week was the Grand American Handicap, which was won by Mr. F. E. Rogers of St. Louis, who broke 94 out of 100 targets from the 17-yard mark in a gale of wind, shooting Winchester Factory Loaded Shells. In each of the other three events on the program, Winchester Factory Loaded Shells or Winchester Repeating Shotguns landed in first place, making a clean sweep for these popular and reliable goods.

DEATH OF GEORGE J. LAIGHTON.

George J. Laighton, former president of the Russell & Erwin Manufacturing Company, died July 1st at Asheville, North Carolina.

In 1903 Mr. Laighton retired from active business, having been identified with the Russell & Erwin Manufacturing Company for over forty years, rising from stock clerk to president. He traveled considerably for the benefit of his health, having experienced a slight stroke of paralysis just after retiring from business. Some time later he had another stroke and for the last four months had been at the home of his brother-in-law in Asheville, in a semi-conscious state. He was a member of the Hardware Club and the Hamilton Club of Brooklyn.

DEATH OF CONRAD DIETZ.

Those attending the recent conventions at Hot Springs, Virginia, and meeting there Conrad Dietz, president of the Boss Washing Machine Company, will be surprised to learn of his death on June 26, at his home, 1279 Kinney avenue, Cincinnati, Ohio.

Mr. Dietz was a native of Germany, coming to this country when but fourteen years of age. For many years he was in the employ of several of the leading furniture manufacturing concerns of Cincinnati, and later on engaged in the manufacture of washing machines to which he ultimately devoted all of his time. His first efforts in this direction were very humble, but they ultimately developed into the large and prosperous concern which was organized under the name of the Boss Washing Machine Company. In addition to being connected with this company, Mr. Deitz was also a large stockholder in the Owl Bayou Cypress Lumber Company of Strader, Louisiana, and a director of the First National Bank of Norwood, Ohio, and of the Giroux Consolidated Mines Company, with headquarters in New York City. He was a thirty-second degree Mason, as well as being a member of several other orders. He was forty-eight years of age and leaves a widow and eleven children. The funeral services were held on June 29th.

INCANDESCENT KEROSENE LAMP BURNER.

In our issue of May 26 we gave a description of the Vita incandescent kerosene lamp burner, manufactured by C. F. Kindermann & Co. of Berlin, Germany. We had several enquiries from correspondents as to who handled this in this country and are just in receipt of a communication from the manufacturers stating that they have not sold the article in question to an American firm. They add that they will be pleased to send a sample to American dealers.

NEW HOTEL LOCK.

A new invention is that of a lock for hotel use, the important feature of it being the arrangement of the interior mechanism so that it is possible to operate it with four different keys. First there is the guest key, which can be used in only one lock, only when it is locked on the inside; next there is the master or floor key, which operates the locks on all rooms on a floor, when not locked on the inside. Then comes the grand master key, which throws the lock bolts on all room doors in the hotel, when not locked from the inside. The fourth key is the emergency key by which the bolts on all room doors in the hotel can be unlocked from the outside, even when locked from the inside with the guest key in the lock. This key is for the use of the proprietor or manager and is only for use in case of great necessity. The locks are arranged so that when locked from the inner side they cannot be operated from the corridor by the guest key, the maser or floor key or the grand master key, but can be operated only by the emergency key. While the door is locked on the inside with the guest key the latter cannot be taken out, thus always insuring the key being in the lock in case of fire or other great necessity. The guest key is operative from the inside at all times. The outside knob regularly operates the latch bolt at all times except when the door is locked from the inside, at which time the outside knob is stationary, to indicate that the room is occupied.

NEW AUTOMATIC WRENCH.

A new automatic wrench has been invented and the inventors have taken the human hand as their model. In outline the new wrench is not at all unlike the hand, the article to be grasped being held securely by two jaws, one of which represents the thumb, and the other the partly closed fingers. The forearm is represented by the handle, and two joints and a spring imitates the human wrist. There are three separate levers, compounded, and so arranged that the power applied to the handle is transmitted through the jaws in a tangential direction to the pipe. Hence the power is applied in a wringing manner similar to that exerted by the hand. There are no sliding parts and no loose, shackly joints. All the joints are pivot bearings, and the strain at these points is a shear strain on the rivets. There are no nuts or screws to adjust, and all that is necessary to attach it is to bring the outer jaw against the pipe and apply pressure.

A GOOD PLAN.

The summer months are generally looked upon by the trade as dull times, and various ways have to be thought of in which to attract people to the store. In the July catalogue of Butler Bros., Chicago, a new idea is given on this subject and that is to have a 5 and 10 cent store "on the side." A special sale of 5 and 10 cent leaders is called attention to, and on the green pages of the catalogue a detailed explanation of how to start this new department is given. The whole catalogue is, as usual, replete with useful information, and the full line carried by the firm clearly put before the trade. Butler Bros. will be pleased to send this catalogue, No. M. C. 580, to the trade, and when writing kindly mention THE AMERICAN ARTISAN.

BRITISH MANUFACTURERS LEARN FROM US.

Consul Marshall Halstead, writing from Birmingham, says that the many visits of British manufacturers to American factories are bearing fruit, one iron and steel manufacturer stating that he "had been through some of the shops in America, where the same kind of work was done, and believed their new shops were ahead of the Americans." An English manufacturer, he says, is hardly regarded as up to date to-day unless he has seen American factories. No one who has not lived in England during the last seven or eight years can realize how great the awakening has been here, nor how changed the British mental attitude is regarding new ways of doing things. There has been much wise and clever adaptation to British cheaper labor needs of American machinery ideas. It has often been found profitable to simplify highly organized American machinery, even separating processes and dispensing with complicated parts requiring skilled mechanics to manage them, substituting instead hand-guilding manipulation for automatic work.

MARLIN REPEATING RIFLE.

The Marlin Fire Arms Company, of New Haven, Connecticut, have recently gotten out their No. 18 Baby Featherweight repeating rifle, weighing only 3 pounds 10 ounces, and the call for it has already been very large.

This, no doubt, will be largely in demand by trappers, campers, cyclists, canoeists and others, and the manufacturers are now ready to furnish this new model fitted with swivels and sling strap as shown in the illustration herewith. One feature that will be of interest to sportsmen is that if the rifle is loaded with the short cartridges and a long range shot is presented, the shooter can, with the action open, remove the short cartridge from the carrier and insert a long rifle cartridge directly into the chamber. It is claimed that effective and accurate work can then be done at ranges up to 200 yards.

Model No. 18.

The Marlin Fire Arms Company, New Haven, Connecticut, will be pleased to send catalogue and full particulars to those interested. When writing kindly mention THE AMERICAN ARTISAN.

THE DANA MANUFACTURING COMPANY.

The Dana Manufacturing Company of Cincinnati, Ohio, continue to put out specialties that prove to be of great value. The illustration herewith is the latest placed on the market by this firm and consists of the Dana food chopper. Among the specialties that have been put out by this firm are the Dana Peerless freezer, the Dana mop wringer, and the Dana food chopper.

The Dana Food Chopper.

The Dana food chopper is very simple and easy in operation. It has a large cutting capacity, the cutters are self-sharpening and cut at an oblique angle instead of square. Three rotors, one for each kind of cutting, do the work. It will cut, chop or pulverize any food used in the kitchen. Each rotor has the conducting spiral of its own all one piece so that the food is fed properly for the article chopped, which makes the pieces uniform and makes mashing impossible. When the rotor is removed, the shell is opened, free for cleaning. There is no uncut food left in the machine, no drip and no waste.

The manufacturers will be pleased to send catalogue and full particulars concerning their full line to those interested who write and mention THE AMERICAN ARTISAN.

SPECIAL RATES TO CHICAGO.

The Chicago Commercial Association has issued the following invitation in connection with their summer and fall meetings at which one and one-fifth fares for the round trip will be given. Tickets can be secured from THE AMERICAN ARTISAN by those desiring same.

"You are invited to attend the annual summer and fall merchants' meetings held under the auspices of the Chicago Commercial Association. You are urged to take advantage of the low excursion rates to be in

effect on the dates announced herewith, and you are further urged to so time your visit and arrange your business that you may remain with us as long as possible and enjoy at least a brief vacation in Chicago, the ideal summer resort and amusement center of America. The high water mark of the present wave of prosperity has not been reached. You are justified by present conditions and future prospects to buy more and better goods. You owe it to your trade to buy in the best and most economic market. In justice to yourself you should combine with your business trip a full measure of recreation and pleasure, and we assure you that a midsummer visit to Chicago will be the best possible vacation for you and your family. We assume that no argument is necessary to convince business men throughout the West and middle West of Chicago's supremacy as the great central market as well as the manufacturing hub of all this vast inland empire. Whether you buy in Chicago or through some wholesale and jobbing center of lesser importance, Chicago must receive her share of your patronage directly or indirectly. It is well to remember, however, that the buyer pays an extra profit on goods shipped to and resold from another city, and aside from the question of price you will find a greater variety and a newer stock to choose from in the great central market. Better shipping facilities and more prompt service are assured from Chicago because of its twenty-four trunk line railroads and seventeen steamship and steamboat lines. No other city in the world is so endowed by natural advantages to fulfill its destiny as the wholesale and manufacturing center of a nation. No city in America can boast of a greater hospitality toward visitors, whether on business or pleasure bent.

"You never will regret it if you come.

"Cordially yours,

"CHICAGO COMMERCIAL ASSOCIATION."

"July, 1906."

The notice of the Western Passenger Association includes the following points: Merchants' special rates, Western Passenger Association territory, including the following states: Iowa, Nebraska, except points on Great Northern Railway, Colorado, New Mexico, on the Atchison, Topeka & Santa Fe proper, New Mexico and Arizona on the Santa Fe Pacific; Montana, from points on the C., B. & Q. Ry., Wyoming, from all points on the C., B. & Q. Ry., and C. & N.-W. Ry., and from Cheyenne and points east on the Union Pacific; also all points in Wisconsin, Minnesota and North and South Dakota, except on Great Northern Ry., Northern Pacific and the Soo Line, and members on these lines can secure the reduced rates from the nearest points on other lines; Illinois, Missouri, and Kansas in Western Passenger Association territory, and northern peninsula of Michigan.

First Meeting.—Dates for buying tickets, July 14, 15, 16, 17, 18, 19, 20, 21 and 22. Dates for returning home, July 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31 and Aug. 1.

Second Meeting.—Dates for buying tickets, August 4, 5, 6, 7, 8, 9, 10, 11 and 12. Dates for returning home, August 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21 and 22.

Third Meeting.—Dates for buying tickets, August 18, 19, 20, 21, 22, 23, 24, 25 and 26. Dates for returning home, August 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, Sept. 1, 2, 3, 4 and 5.

Fourth Meeting.—Dates for buying tickets, September 1, 2, 3, 4, 5, 6, 7, 8 and 9. Dates for returning home, September 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18 and 19.

Fifth Meeting.—Dates for buying tickets, October 27, 28, 29, 30, 31, November 1, 2, 3 and 4. Dates for returning home, October 29, 30, 31, November 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13 and 14.

HAS BEEN BENEFICIAL.

TO THE AMERICAN ARTISAN:

I was surprised to learn by your last paper that some of the members of the hardware association are resigning because they are liable to be assessed for a few dollars.

I have heard a large number of members say that they would not have missed attending the meetings for fifty dollars. Others say they have had hundreds of dollars' worth of benefit on account of the association work, while none of them donated anything more than their regular dues for all the benefit that they have received.

Now, when there is a possibility that it may cost us a few dollars, they want to desert us. It isn't fair, it isn't right, and I hope you will prepare an article in your usual plainforward way and tell these backsliders what they are.

Besides, if we all stick together, the assessment, if there is any, will not be so large as if a number resign and make a few shoulder the burden. I cannot understand why there should be any assessment, or should be any trouble, but if our officers have got us into a mess let us not desert them. We all fought together for the common good. They have been unselfish in their devotion to our interest, let us not desert them now.

Yours very truly,

FRANK ROGERS.

FAVORS A SUBSCRIPTION LIST.

TO THE AMERICAN ARTISAN:

I am going to send you this letter, although I do not expect you will publish it. I am going to send it anyhow, even if you throw it into the waste basket.

I was not surprised at your article in last week's paper about shipwreck and incompetent pilots, mixed up with dancing and fiddlers. I am not surprised at anything you publish, so it may be that I won't be surprised if you do publish this.

But what was your object in creating a panic among the members of the Retail Hardware Association? How do you know that it will be necessary to assess the membership to pay lawyer's fees and costs, and how do you know that judgments will be rendered against our association in these suits that are threatening us? You have a habit of asking questions in your paper, so do not blame me if I ask some of you.

I consder your article a scare and unwarranted, and hope you will not publish many in the same strain as it might frighten a number of our members into re-

signing. In every organization there are those who are only too anxious to follow a leader, and whether it be for the best of the organization or not. If you will flaunt the red flag in the face of the bull, something will happen.

Please do not make our membership excited, and do not use your energies to create a stampede among our members. If you want to do the Association a favor why don't you help get up a subscription list and collect a fund to carry the litigation we are threatened with to a finish? I don't think it will be necessary to assess the membership, I think we can raise plenty of money among our members and I know a great many of the jobbers and manufacturers are friendly to us and will do all they can to keep the organization together and I wish you would in your paper do all you can to keep the membership together.

CHARLIE.

WILL STICK TO THE SHIP.

To THE AMERICAN ARTISAN:

I read your paper with a great deal of interest; have read it for a number of years, and have always admired your outspoken, independent method of expressing your views and opinions. One usually knows which side of the fence THE AMERICAN ARTISAN is on. I have never known it to "straddle," and at every opportunity I have complimented you on the broad gauge plan on which your journal is conducted.

There are quite a number of traveling men who make this town for Monday and it is a standing joke as to which one of them will get the first look at your paper in my store. From these evangels of commerce comments on trade topics I learn a great deal about what is going on in the trade and I gather from them that all is not smooth sailing in the association ranks.

I was at our convention last February, and a few criticized the conduct of your journal, but the general impression was that you had been conducting your paper for a great many years and knew how it should be carried on; that you had done a great deal for the retail organization, and were in a position to criticize, and though adverse criticism is not always welcome, when it is well meant it should be heeded, as we always learn by experience.

I was more than pleased to read your article in the June 30th issue advising our membership to "stick to their guns." I do not care if a few sore heads do resign, I am going to stick and if we have made mistakes let us profit by our past experience and do better next time.

The travelers tell me that quite a number of members have resigned and I think your recommendation to them to keep together and hold up our organization should be followed, and if it does cost us a few dollars apiece, what should we care, as we must not forget the many dollars' worth of benefit we have received from our organization since it was organized. "United we stand, divided we fall," and I am for all standing shoulder to shoulder and fighting our mutual cause.

Yours very truly,

M. L. C.

SEARS, ROEBUCK & CO.

An idea of how much business is taken away from the retailer by one catalogue house is shown by a perusal of the prospectus issued recently by Lehmann Bros., 16 William street, New York City, and Goldman Sachs & Co., 43 Exchange place, New York City, with regard to the incorporation in New York of Sears, Roebuck & Co.

The statement shows that the business is distributed among upwards of six million customers in all parts of the United States, whose orders for merchandise are received by mail, the terms being "cash before delivery." The following figures will show how the hardware business has been affected during the years 1903, 1904, 1905:

The business done by this firm in vehicles in 1903 amounted to $1,008,747; in 1904, $1,121,626, and in 1905, $1,496,921.

In bicycles, the figures are: 1903, $732,837; 1904, $497,262; 1905, $634,941.

In stoves: 1903, $1,818,291; 1904, $1,844,864; 1905, $2,203,710.

In sewing machines: 1903, $1,387,245; 1904, $1,323,489; 1905, $1,327,709.

In agricultural implements: 1903, $472,816; 1904, $489,996; 1905, $650,699.

In hardware and house furnishings: 1903, $2,373,430; 1904, $2,862,356; 1905, $4,596,425.

In sporting goods: 1903, $1,338,777; 1904, $1,421,594; 1905, $1,548,317.

The following is the prospectus in full:

Sears, Roebuck & Co.

Incorporated under the Laws of New York State.

Authorized Issue.

$10,000,000 Preferred Stock.

$30,000,000 Common Stock.

Sears, Roebuck & Co., a New York corporation, successor to an Illinois corporation of the same name, is a mail order house, whose plant is located in the city of Chicago, Ill. The company is engaged in the distribution by catalogue direct to the consumer of all classes of merchandise. The company conducts, we believe, the largest business of the kind in the world. From the balance sheets furnished to us and hereinafter referred to, it appears that the company's sales in 1905 amounted to $38,708,526; while for the first five months of 1906, we are informed, the total sales aggregated $20,322,160, as against $14,247,794 for the similar period in 1905.

The officers of the company inform us that it sells this enormous output without the extension of any credit, the terms being "Cash before delivery"; that the business is distributed among upwards of six million customers, in all parts of the United States, whose orders for merchandise are received by mail; that the incoming letters averaged for the past year about seventy-five thousand letters per day; that the newly completed buildings for handling the merchandise and for administrative purposes cover a large part of thirty-seven acres of land, in the city of Chicago, and that the foregoing does not include any of the various manufacturing concerns in which the New

York corporation of Sears, Roebuck & Company owns a controlling interest.

We Offer for Sale

Sears, Roebuck & Co.

Seven Per Cent Cumulative Preferred Stock.
Dividends Payable Quarterly.
Shares of the Par Value of $100 each.

The $10,000,000 preferred stock is preferred as to assets, both as to principal and dividends.

The company may redeem the entire issue of its preferred stock at any time at 125%, and under its charter is permitted to buy its own stock in the open market, for treasury account, and when so purchased shall cancel the same.

EARNINGS.

From balance sheets submitted and statements made to us by the officers of the company, it appears that the net profits of the predecessor company for the four years ending December 31, 1905, over all charges, were as follows:

For the year ending December 31st:

1902	$1,215,824.75
1903	1,768,599.07
1904	2,276,871.24
1905	2,868,061.31

It further appears that the sales of the predecessor company were as follows:

SALES.

1902	$16,416,792
1903	24,000,264
1904	28,711,693
1905	38,708,526
First 5 months 1906	20,322,160
as compared with	
First 5 months 1905	14,247,794

Comparative Statement of Sales of the Predecessor Company.

Departments.	1903.	1904.	1905.
Furniture	$1,598,642	$2,013,858	$2,941,008
Jewelry and Silverware	1,075,598	1,209,150	1,454,452
Groceries	687,553	983,512	1,687,903
Drugs and Surgical Inst's	504,520	661,445	709,520
Harness	638,946	724,811	1,060,181
Vehicles	1,008,747	1,121,626	1,496,921
Musical Goods	983,895	1,125,357	1,337,966
Clothing	2,504,786	2,779,657	3,430,093
Dry Goods and Carpets	1,424,345	2,006,716	3,070,272
Men's and Women's Furn.	1,220,042	1,777,486	2,388,011
Shoes	944,582	1,449,578	2,432,210
Ladies' Cloaks, Waists, Furs	1,056,472	1,554,884	2,111,298
Bicycles	732,837	497,262	634,941
Stoves	1,818,291	1,844,864	2,203,710
Sewing Machines	1,387,245	1,323,489	1,327,709
Books and Stationery	301,470	318,148	374,217
Paint and Wall Paper	454,516	700,469	919,381
Agricultural Implements	472,816	489,996	650,699
Hardware and House Furnishings	2,373,430	2,862,356	4,596,425
Millinery and Notions	793,443	1,013,186	1,180,771
Phot., Phon. and Opt. Sup.	583,888	675,408	897,716
Sporting Goods	1,338,777	1,421,594	1,548,317
Binder Twine	40,993	65,929	81,599
Electrical Goods	54,747	90,755	153,091
Seeds and Bulbs	.....	.....	20,103

The above figures are subject to certification and verification by Messrs. Deloitte, Plender, Griffiths & Company, chartered accountants, who are also preparing a balance sheet of the business as of June 30, 1906. The sellers to us of the said stock guarantee that the New York corporation will have on July 1, 1906, a minimum of $10,000,000 in assets over all liabilities. When completed, copies of said balance sheet and of the accountants' certificates and verifications may be seen at the offices of the undersigned.

RETAIL HARDWARE DOINGS.

NEW FIRMS AND INCORPORATIONS.

Gulfport, Mississippi—Poythress Hardware Company; capital stock $25,000; incorporators are I. N. H. Poythress, D. E. Bennett and others.

Sheffield, Alabama—Sheffield Steel Range & Stove Company.

Carroll, Iowa—American Tool Company.

Red Bank, New Jersey—Jos. T. Burrowers Company; capital stock $30,000; incorporators are Jos. T., Ada and Harry C. Burrowers and others.

Crookston, Minnesota—D. D. Clark & Company.

Kewaskum, Wisconsin—Henry Rathum.

New Haven, Connecticut—F. F. Chandler and Wm. H. Sellwood.

New Castle, Pennsylvania—Wirsing Brothers; capital stock $25,000.

Mitchell, Iowa—W. H. Brown.

Bismarck, North Dakota—C. A. Heegard Hardware Company; capital stock $20,000; incorporators are C. A. Heegard, Walter Schreiber and others.

Estelline, Texas—Johnson Hardware Company; capital stock $7,500.

Clinton, Oklahoma—Brown, Robinson & Company; capital stock $10,000.

BUSINESS CHANGES.

Stewart, Nebraska—Gallagher Brothers succeed Reuben Taft.

Colon, Nebraska—Nelson-Henning Hardware Company succeeds Chas. Nelson.

Atkinson, Nebraska—J. J. Stillson succeeds Atkinson Hardware Company.

Prescott, Iowa—H. Reese succeeds J. E. Rutting.

Montesano, Washington—McDowell & Phillips succeeds T. J. McDowell.

Idabel, Indian Territory—S. McConathey succeeds Willis Owen.

Oak Grove, Missouri—Erwin & Wolraven succeed B. R. Fishback.

Nowata, Indian Territory—The Mercantile Company succeeds W. P. Ringo.

Midlothian, Texas—Major & Dees succeed T. C. Perry & Company.

Chandler, Oklahoma—S. A. Key succeeds J. McParland.

Kansas City, Missouri—E. Stoeltzing succeeds Gardner & Company.

Baldwin, Kansas—H. A. Share succeeds B. F. Stevenson.

Ashland, Ohio—M. W. McCready succeeds The McCready Hardware Company.

Havana, Illinois—Crescent Forge & Shovel Company; increased capital stock from $45,000 to $75,000.

Highland, Illinois—Edward Stoecklin succeeds John Leu.

Postville, Iowa—Schroeder & Stone succeed A. L. Meier.

Danville, Illinois—Force & Booth; name changed to Booth Hardware Company.

Minooka, Illinois—Mr. Handwerk succeeds Thomas Murphy.

Monroe, Iowa—L. C. Allbright succeeds Axtell & Icenbice.

MISCELLANEOUS.

Rosebud, Texas—Blaesing Brothers; destroyed by fire.

Syracuse, New York—Hyle Steel Tool Company; bankruptcy.

Mazomanie, Wisconsin—A. E. Diment; destroyed by fire; loss $10,000; partially covered by insurance.

Fulton, New York—George Johnson; destroyed by fire.

Braddyville, Iowa—F. W. Hart; destroyed by fire; loss $10,000.

Panama, Indian Territory—R. W. Wylie; destroyed by fire; loss $5,000.

San Francisco, California—Alexander Yost Hardware Company; new building.

Heating and Ventilating

TROUBLE WITH CHIMNEY.

To THE AMERICAN ARTISAN:

Can any of your readers help me? I have trouble in a ten-roomed school building in a ventilating chimney. It was formerly a Smead dry closet chimney. The closets have now been turned into water closets.

It is the chimney where the trouble is at times by reversal in draft. Three-fourths of the chimney is built outside of the school wall east side of building. It reverses more easily in east winds, but will do so with any wind unless a strong fire is constantly kept at its base.

Do you think a turning coul at the top of chimney would make it draw at all times? It seems to be the two heating chimneys have a tendency to pull the air down the ventilating chimney.

Very sincerely yours,

SAM J. BECK.

THE IMPROVED HERO FURNACE.

The Improved Hero Furnace, manufactured by Charles Smith Company, 97-101 Lake street, Chicago, is an all-cast iron furnace for hard coal and is also made with two-piece radiator for soft coal.

The manufacturers claim for it that it is not only a gas tight, durable and economical furnace, but also one that it is easy to manage, feed and clean. The reason they give for the very deep ash pit is that it secures a free flow of air and proper combustion for fuel, and prevents the formation of clinkers. Other points which the manufacturers call atention to are the deep corrugations in the fire pot both inside and outside, and the high heavy dome. These deep corrugations, it is claimed, increase the strength of the fire pot and doubles its radiating surface, and also tend to make it more durable. The feed door in dome is made high and proves a great convenience in burning large chunks of coal or wood.

Write the manufacturers for their catalogue and circulars giving full particulars, and when writing kindly mention THE AMERICAN ARTISAN.

LENNOX TORRID ZONE FURNACE.

The Lennox Torrid Zone steel furnace, manufactured by the Lennox Furnace Company, Marshalltown, Iowa, is one that gives general satisfaction wherever used. The manufacturers claim many advantages for it one of which is that there is not a packed joint of any kind about it. The fire, smoke and gases are confined within a gas tight and smoke tight steel dome riveted like a steam boiler, and with it there will be no cracked fire pots. In the Canadian northwest, where powerful heaters are required, the Torrid Zone has been a favorite and met every demand. Its indirect radiator connected by a special dove-tailed collar nearly doubles the heating capacity of the furnace, and the claim is made that it is simple to operate and as easy to set as a stove.

The Lennox Furnace Company, Marshalltown, Iowa, will be pleased to send their forty-page catalogue to all interested, and when writing kindly mention THE AMERICAN ARTISAN.

THE MUELLER FURNACE.

The Mueller furnace, manufactured by the L. J. Mueller Furnace Company, 191 Reed street, Milwaukee, Wis., is one that the manufacturers claim give results wherever used. It is an all cast, double radiator furnace, and being properly proportioned and possessing a sufficient amount of surface exposed to the direct rays of the fire, cannot fail to give satisfaction. It is very fully described and illustrated in the company's catalogue, together with their entire line of heaters. This catalogue will gladly be sent to those writing and mentioning THE AMERICAN ARTISAN.

A COMBINATION BOILER.

Where difficulty is experienced in hot air furnaces failing to heat all of the rooms in the building in which they are installed, the "Champion" hot water combination boilers manufactured by Frank D. Stolz, 156 Webster avenue, Chicago, comes to the rescue.

Base Section.

This hot water combination is made with base and intersections by which it can be fitted to any furnace without difficulty. The illustration herewith shows the base section when used without ring sections. The construction of this section permits its being placed directly at the top of the fire in which position its large surfaces are subjected to the strongest effect of the fire, making it, the manufacturer claims, a powerful heater. The opening in top allows the flame and reflection of the fire to come in contact with the surfaces of the furnace as without the application of the boiler, thus detracting little from the hot air capacity of the furnace.

Write the manufacturer for booklet giving complete description and prices, and when writing kindly mention THE AMERICAN ARTISAN.

THE STANTON FURNACE.

A furnace that is becoming very popular and in great demand is the Stanton upright steel furnace, manufactured by the Stanton Heater Company of Martin's Ferry, Ohio.

The radiating sheet or main drum, is made of locomotive fire box steel, 3-16 inches thick. Every joint is tightly riveted, making, it is claimed, a smoke and gas tight furnace. The head of the radiating sheet, or main drum, is flanged and dished by hydraulic pressure, and securely riveted to radiating sheet. The bottom of main drum is left open, and the furnace sets on a cast iron bottom, which forms bottom of ash pit and to which is bolted the bottom casing ring.

In order to make the furnace effective to the fullest extent and reduce the amount of fuel used, a radiator of American Bessemer steel is connected to the radiating sheet or main drum at the smoke outlet. This radiator is provided with a damper, so products of combustion may pass directly to the chimney when the feed door is open, or down to bottom of radiator, and through tee to smoke pipe. All seams are riveted, and are smoke and gas tight. The radiator is fastened to radiating sheet, or main drum, by flange bolted to each, and connected by a slip joint one-half inch deep, held in place by two bolts. This, it is claimed, makes a simple and smoke tight connection. The smoke opening from radiating sheet to the radiator is provided with a smoke collar in the inside of radiating sheet which projects seven inches, and the manufacturers claim this causes the heat and products of combustion to linger in the furnace, and adds to the heating power. A hot blast can be made by connecting hot blast tubes with openings in the grate rest. The hot blast air is taken through check door and ashpit to openings in grate rest, and thence to top of fire, where mixing with the smoke and gas, it is claimed, perfect combustion is formed. The feed door is 12 x 14 inches, and the ashpit door is 10 x 12 inches.

The manufacturers will be pleased to send catalogue and full particulars to those writing and mentioning THE AMERICAN ARTISAN.

THE IMPROVED RADIUM FURNACE.

The improved Radium furnace, manufactured by the Radium Furnace Company, 403 Long avenue, Cleveland, Ohio, has many desirable features and is suitable for coal, coke, wood or gas.

One of the original features is the combined dome and radiator. It combines two distinct radiators in one and the heat makes a complete circuit of both before reaching the smoke pipe. This brings the heat in direct contact with three separate outer surfaces in addition to the top and bottom. The cast iron combustion chamber, or inner radiator, is cast in one piece, and is so heavy that it is practically a continuation of the fire pot. This is the part of the dome which is most exposed to the action of the fire, and to secure durability and prevent quick cooling the manufacturers have added weight and built it of cast iron instead of steel. The outer radiator, on which the action of the fire is less severe, is made of steel to insure quick radiation with low fire. Another important feature of this radiator is the patent fused joints with which the steel and iron of the dome are joined. The two materials are fused together at a high temperature, making a joint that is gas tight and dust proof and that cannot be worked loose. It is also claimed that the heating surface and air space are so proportioned that most economical and efficient results are obtained. The water plan is placed above the feed doors and next the dome, in the best position for convenience in refilling and for steady evaporation direct into air chamber above furnace, thus imparting moisture to the air before it passes from the furnace to the rooms. The fire pot is made in two pieces, joined in the center by a cup joint, which obviates the danger of the pot cracking on account of unequal expansion and contraction. A regulator, with thermometer, for registering the temperature in room and regulating the drafts of furnace from rooms above is supplied with each Radium furnace. They are nicely electro plated to match hardware.

The Radium Furnace Company, 403 Long avenue, Cleveland, Ohio, will be pleased to send catalogue and full particulars to those writing and mentioning THE AMERICAN ARTISAN.

THE AUER REGISTER.

The deflecting wall register, the invention of the Auer Register Company, 403 Long avenue, Cleveland, Ohio, is one that is meeting with general favor and being largely used. The manufacturers claim that by it they are enabled to inaugurate an improved,

A Grate Front.

more efficient and convenient plan of installing furnaces for residence heating.

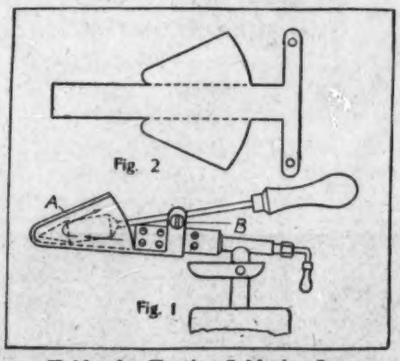
The illustration herewith shows a grate front with Auer register for a mantel in place of a grate. It is not only practical, but is a handsome addition to a room. This is made in one size, for mantel opening 24x30, with No. 11 register, and is oxidized copper plated. In addition to being a wall register it is a ventilator also, combining ventilation with heating. It regulates the heat to the upper rooms, dispensing with the necessity of going down to the furnace room to regulate the dampers, and the manufacturers also claim for it that it saves fuel and enables the furnace to give better satisfaction. There is no cutting of carpets or soiling of walls, and not being placed on the floor it is therefore not a receptacle for the accumulation of sweepings. Every one is guaranteed by the manufacturers to be free from defects in material and workmanship and to do all that is claimed for it.

The Auer Register Company, 403 Long avenue, Cleveland, Ohio, will be pleased to send catalogue and full particulars to those desiring same. When writing kindly mention THE AMERICAN ARTISAN.

Tinshop

SOLDERING IRON HOLDER FOR BLOW TORCH.

A device for heating soldering irons very quickly and with little fuel consists of a sheet iron pocket, A, Fig. 1, and a 3-16 inch stove bolt, B, for fastening to blow torch. Cut a piece of No. 18 sheet iron to the shape shown in Fig. 2 and drill holes for the 3-16



Holder for Heating Soldering Iron.

inch stove bolt as shown. Bend the sheet iron as shown in Fig. 1 and fasten to the burner, and the heater is complete.—Contributed by G. L. Housman, Prattville, Mich.

METAL PROTECTING PAINTS.

It is a well known fact that the greatest preventative of iron, steel and tin roofs corroding or decaying is a good quality of paint. The Garry Iron & Steel Company of Cleveland, Ohio, manufacturers of roofing and roofing paints, claims that the secret of the lasting qualities of their roofing lies in it being covered with their high grade paint. In a circular to the trade they state that they grind all their ores from the hardest Lake Superior rock, and thus are enabled to furnish excellent metal protecting paints at the very lowest prices.

Write the Garry Iron & Steel Company, Cleveland, Ohio, for their catalogue and price list, and when doing so kindly mention THE AMERICAN ARTISAN.

PREPARED ENAMEL COLORS.

One of the largest manufacturers of prepared enamel colors is Vollkommer & Co., 1112 Empire building, Pittsburg, Pennsylvania, and they are also extensive manufacturers of vitreous enamels in all colors for sheet steel and cast iron articles.

Several sample plates of bright red, crimson, and yellow enamel colors have just come to hand and show that this firm has made a fine art of the business. They are now regularly supplying numerous enameling and stamping works with these goods, and for the convenience of their customers have added a complete laboratory to their shop equipment where they can test the relative merits of materials or of enamels. They are ready to place their experience at the disposal of any desiring it and will be glad to answer any inquiries that may be made. Among the list of prepared enamel colors manufactured by them might be mentioned: Blue—azure and light. Turquoise—bluish A, bluish B, greenish. Green—dark, brilliant, light A, light B. Red—brilliant, decor, crimson, copper, dark. Pink—gold oxide. Yellow—bright ochre, lemon, gold, gold orange, ochre. Brown—chocolate, copper (dark), copper (light). Also gray, black and dark blue colors are carried.

The manufacturers will be pleased to send samples and literature to those interested, and when writing kindly mention THE AMERICAN ARTISAN.

NATIONAL ASSOCIATION OF SHEET METAL WORKERS CONVENTION.

The second annual convention of the National Association of Sheet Metal Workers of the United States will be held at Indianapolis, Indiana, on August 8. Secretary W. H. Barnard has issued the following notice in regard to this:

"Office of the Secretary, The National Association of Master Sheet Metal Workers of the United States, Norfolk, Virginia.

"The second annual convention of The National Association of Sheet Metal Workers of the United States will convene at Indianapolis, Indiana, Hotel Dennison, August 8, 1906, at 10 o'clock, a. m. The convention will last two days. You are respectfully invited to attend. All master sheet metal workers will be welcome to a seat on the floor of the convention, whether they are members of the National Association or not.

"Ladies who accompany you will be entertained and due diligence will be shown to make their visit a pleasant one."

OFFICERS.

President, Edwin L. Seabrook, Camden, N. J.

First Vice-President, Paul L. Biersack, Milwaukee, Wis.

Second Vice-President, Wm. Early, Philadelphia, Pa.

Third Vice-President, J. A. Pierpont, Washington, D. C.

Fourth Vice-President, Geo. Mast, Indianapolis, Ind.

Secretary, W. H. Barnard, Norfolk, Va.

Treasurer, E. W. Richards, Philadelphia, Pa.

TRUSTEES.

Geo. W. Battley, Norfolk, Va.
Otto Coebel, Syracuse, N. Y.
John Bogenberger, Milwaukee, Wis.
W. W. Bosbury, Parkersburg, W. Va.
Henry Weis, Kansas City, Mo.
W. A. Fingles, Baltimore, Md.
W. A. Gallagher, Wilmington, Del.
G. W. Smith, Brooklyn, N. Y.
U. D. Sweigard, Erie, Pa.

DOUBLED HIS WAGES.

TO THE AMERICAN ARTISAN:

Through your valuable paper I got a position where I exactly doubled my wages, and will on my road through the country advise any and all tinners to be subscribers to THE AMERICAN ARTISAN.

Yours very truly,
NIELS RAPN.

Rhinelander, Wis.

REED'S MONARCH WASH BOILER.

Quality, construction and finish are the distinguishing features claimed for Reed's Monarch hand made wash boiler, manufactured by the Reed Manufacturing Company, Newark, New York.

These boilers are made of four grades—1X, 2X, 3X, 4X, 5A tissue lined charcoal plate, with 14, 16, 18 and 20 ounce full weight copper bottoms, full line tin bottom and metallic bottom boilers and also four grades all copper boilers. They are all wired with 5-16 hard market steel wire drop forged, which, it is claimed, makes the boiler strong enough to withstand a pressure of 300 pounds without deflecting 1-16 of an inch. The cover and rim are made of one piece, seamless pressed, with one inch rim; patent cold stationery handles are riveted on top of cover.

The company will be pleased to send catalogue and price list to all writing, mentioning THE AMERICAN ARTISAN.

ABOUT CEILINGS.

"About Ceilings" is the title of a neat little folder recently issued by the Berger Manufacturing Company of Canton, Ohio.

It deals with the Berger kind of metal ceilings and states that each design has a definite style of ornamentation and every individual piece or plate is in harmony therewith. The designs are first modeled in clay, affording mobility, elegance, character and evolving a high expression of detail. The stippled background used in many of the designs enhances the rich plastic effect of the ornamentation, the deep stamping brings out the detail in bold relief, and through the simple blending of colors, expression and refinement are secured. The series embrace Roman, Romanesque, Gothic, Greek, Italian Renaissance, French Renaissance, Rococo, Empire and Colonial, styles particularly suited for churches, schools, colleges, banks, stores, etc.

The Berger Manufacturing Company, Canton, Ohio, will gladly send their illustrated metal ceiling catalogue to any who desire it. When writing kindly mention THE AMERICAN ARTISAN.

FRIEDLEY-VOSHARDT CO. CATALOGUE.

The new 176 page catalogue of the Friedley-Voshardt Company, manufacturers of architectural sheet metal work, steel ceilings, etc., 194-204 Mather street, Chicago, has recently been received.

It is gotten out in the firm's usually attractive style and is replete with information of interest to the trade. Every page is finely illustrated with cuts of goods manufactured and handled by the company. Some very artistic styles are shown of steel ceilings, those of the Rococo and Renaissance design being especially pleasing. The architectural ornaments and statuary illustrated are very attractive, in the latter being some fine cuts of Justice, Atlas supporting the world, and General Custer. The latter statue is supplied in a height of 6 feet 6 inches.

Finials, in many styles, weather vanes, dormer windows, door and window caps, and automatic fire proof windows come in for copious illustrations, and every line handled by the company is intelligently treated. The Friedley-Voshardt Company will be pleased to forward this or their ceiling catalogue to those interested, and their 256 page ornamental catalogue to the cornice trade. When writing kindly mention THE AMERICAN ARTISAN.

"PERFECT" HIP SHINGLES.

The Edwards Manufacturing Company, "The Sheet Metal Folks" of Cincinnati, Ohio, are manufacturers of the 'Perfect" hip shingles which they claim to be absolutely impervious to rain or snow. There is no trouble to lay them even and straight, owing to the offset or shoulder fitting snugly against the butts of the shingles, forming a gauge, and a protection from driving showers of rain or drifting snow. They are made in tin, galvanized iron and copper, in a size of 4 x 9 inches.

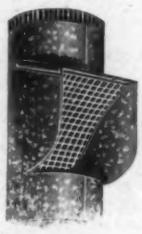
The manufacturers will be pleased to send prices, also their catalogues on metal ceiling and sheet metal ceiling to any writing and mentioning THE AMERICAN ARTISAN.

SOME GOOD SPECIALTIES.

The J. E. Whitacre Manufacturing Company, of Rockford, Illinois, have long been known as manufacturers of specialties that have been, and are of inestimable value to tinners and others.

Leader Cut-Off.

The "Leader" cut-off, an illustration of which is given herewith, is one of the most useful to be found on the market, and is deserving of its name. It takes the flow direct to the cistern or sewer, unless cut out, and keeps the conductor pipe in line below the cut-off, giving a neat and workmanlike appearance to the job. It has a positive valve and simple fastening, and is packed half right and half left hand in one dozen crates.



King Strainer.

The King strainer, also illustrated herewith, can be used in any position on the pipe above or below the cut-off, allowing any combination desired. The manufacturers claim that the proper place for the King is at the outlet of the gutter or trough, thus allowing all foreign matter to be discharged instead of clogging up the gutter or conductor pipe. The birds cannot nest in the elbow with this strainer, and as it has a large opening it allows leaves, sticks, etc., to discharge without clogging.

Write the J. E. Whitacre Manufacturing Company, Dept. A, Rockford, Ill., for further particulars, and when writing kindly mention THE AMERICAN ARTISAN.

NEW ROOFING MATERIAL HAS RARE QUALITIES

A new building material especially for roofing purposes, the result of eight years of careful experimenting, has just been perfected and placed on the market. The product consists of a core of annealed steel, which is protected against rust and deterioration by a coating of special compound, with a layer of asbestos on both sides imbedded in the compound. The annealed sheet, which can be either flat or corrugated, is to give strength and rigidity with flexibility to the material; the cementing compound, into which the sheets of steel are dipped at a high temperature, is a solution composed principally of pure asphalt, and the asbestos cover, which is applied to each side of the steel sheet is employed as a protection against fire and as an insulator against the transmission of heat.

The application of the asbestos felt to each side of the sheet is accomplished by passing the material as a whole between heavy steam-heated rolls, the office of which is largely to unite the different elements so that the asbestos, the cementing compound and the steel are formed into a practically solid mass. The process gives a sheet of material which exposes an unbroken surface of white asbestos on both sides. It is made in two brands, the outside covering of one of which is composed of regular building paper, which can be readily painted. The other has an asbestos paper with the fireproof and acid-resisting qualities of the regular paper, and in addition a treatment to render it immune to dampness. The material is produced in flat sheets 30x120 and 30x96 inches in size, and in corrugated sheets 27½x90 inches and 27½x120 inches. It can be laid with lap joints or with standing or patent self-locking seams and is shipped in crates with nails, cement and directions for applying. Strong claims are made for the desirability of this new style of roofing under various conditions. The asbestos protection makes the steel proof against rust and against the ravages of damp or salty climates. It is claimed that the roofing does not absorb the heat of the sun's rays, and will thus keep a building from 10 to 20 degrees cooler than one otherwise sheathed, which characteristic would make the roofing particularly desirable in tropical countries. The roofing is equally capable of keeping heat within a building, and thus has its advantages for cold climates. It is also asserted that it prevents interior condensation and moisture because the asbestos absorbs whatever dampness might accumulate on the sheathing boards.

NOTES AND QUERIES.

PERFORATED METAL.

From L. A. Goedecke, Knapp, Wisconsin.

Will you kindly give me the name of the manufacturers of a line of perforated metal?

Ans.—Harrington & King, 212 North Union street, Chicago, Ill.

GRAHAM, EMLEN & PASSMORE LAWN MOWER.

From Flanegin Hardware Co., Logansport, Ind.

Please give us name of manufacturer of the Graham, Emlen & Passmore lawn mower, style M, 1891, made in Philadelphia.

Ans.—The Philadelphia Lawn Mower Co., 3101-09 Chestnut street, Philadelphia.

ALUMINUM GOODS.

From J. W. Wingert, Hoisington, Kas.

Will you kindly give me the name and address of a firm that makes a specialty of manufacturing aluminum goods?

Ans.—The Illinois Pure Aluminum Co., Lemont, Illinois.

CONDUCTOR FASTENER.

From F. O. Schoedinger, Columbus, Ohio.

Will you kindly give me the name of the manufacturer of Minnemeyer's patent conductor fastener?

Ans.—Clark, Quien & Morse, Peoria, Ill.

ITEMS.

Frank Diesel, of 349 Hampden court, Chicago, died of heart failure on June 26. For more than thirty years Mr. Diesel was engaged in the tin can manufacturing business, but retired from active work in 1901, when his plant was sold to the American Can Company.

The Magic pattern rule, manufactured by the Lufkin Rule Company, Saginaw, Michigan, will lay out patterns for any size and angle of elbows in three minutes' time. It can also be used as a straight-edge rule, and circumference rule and trammel, and will be found most valuable in every tinshop.

THEY NEED CATALOGUES.

To THE AMERICAN ARTISAN:

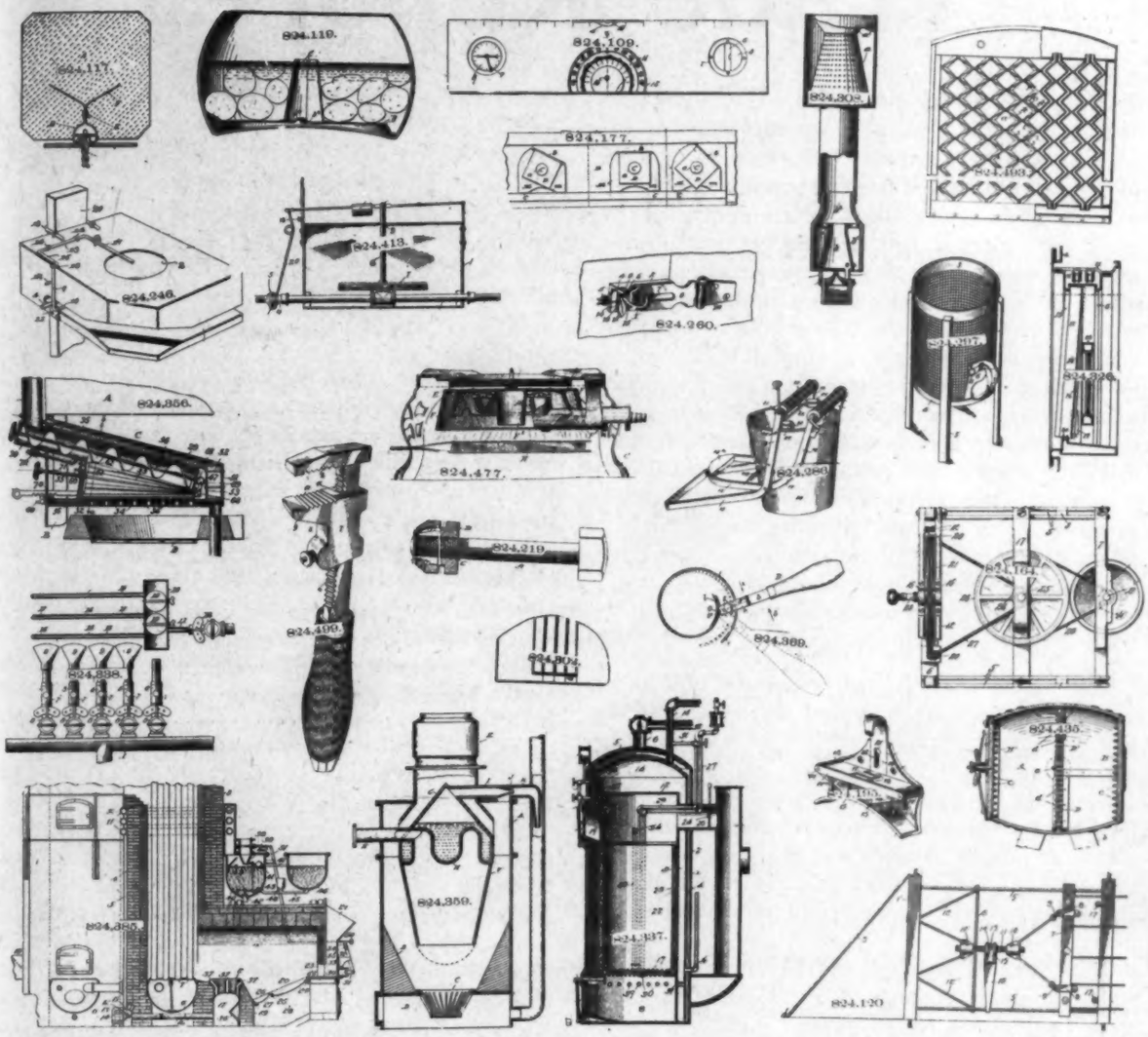
Please inform the readers of your valuable paper that we would like to receive catalogues of sheet metal ornaments. Yours truly,

Baltimore, Md. WM. F. ZELLER & CO.

PRUSSIAN TECHNICAL EDUCATION.

Consul G. E. Eager of Barmen sends a detailed account of the Prussian system of technical education. In the kingdom there are 19 schools in which the construction of machinery and the metal trades are taught, attended by 3,132 pupils; 33 academies of architecture with 5,285 pupils; 5 textile art, 7 high textile, and 6 trade schools, besides 21 similar professional schools that show an attendance of 14,424; 1,301 schools of professional and technical education have a compulsory attendance of 202,905 pupils, and 94 similar institutions are voluntarily attended by 23,905 scholars. Commercial schools number 254, with a compulsory attendance of 27,181 males and 927 females; also 62 schools with a voluntary attendance of 7,025. Compulsory education of females in mercantile lines has been introduced in ten districts. Technical schools, 423 in number, supported by the butcher, baker and other guilds, have an enrollment of 28,124 students. Prussia spends $63,359 yearly in aid of these various schools, averaging $8.51 for each pupil. If the United States expects to keep abreast with Germany in manufactures and commerce it is vital that such technical schools be established. America's few manual training schools only poorly supply such demands.

NEW PATENTS.



824,109—Spirit level. Allen T. Gibson, Hodges, Tex. Filed Aug. 12, 1905. Serial No. 273,958.

824,117—Fence post. Robert S. Hiltner, Lincoln, Neb. Filed Feb. 14, 1906. Serial No. 300,987.

824,119—Cooking utensil. Edward C. Howland, New Milford, Conn. Filed March 16, 1905. Serial No. 250,341.

824,120—Wire stretcher. Jesse A. Hoyt, Hastings, Iowa. Filed June 2, 1905. Serial No. 263,452.

824,147—Cream pasteurizer and cooler. Hubert N. Rivard, Montreal, Canada, assignor to La Compagnie de Laiterie St. Laurent, Montreal, Canada, a corporation of Canada. Filed March 28, 1906. Serial No. 308,387.

824,164—Churn. John W. Wilson, Granite City, Ill., assignor of one-half to Elias Mott, Granite City, Ill. Filed Dec. 4, 1905. Serial No. 290,063.

824,177—Nut lock. James W. Gilbert, Birmingham, Ala. Filed June 2, 1906. Serial No. 263,452.

824,195—Gate latch. Neal A. McPhail, Cass City, Mich., assignor to Orrin K. Janes, Cass City, Mich. Filed Oct. 18, 1904. Serial No. 228,986.

824,219—Nut lock. Franck S. Di Vitto and Anthony Meyn, New Orleans, La. Filed Feb. 17, 1906. Serial No. 301,667.

824,246—Animal trap. George A. Jones, University Place, Neb. Filed Feb. 27, 1906. Serial No. 303,233.

824,260—Hasp fastener. Samuel J. McClung, Fayette, W. Va. Filed Nov. 14, 1905. Serial No. 287,264.

824,286—Mop wringer. John V. Cook, Chicago, Ill. Filed May 17, 1905. Serial No. 260,819.

824,297—Bin. George W. Hopkins and Albert E. Canfield, Guthrie, Okla.; said Canfield assignor to said Hopkins. Filed Feb. 11, 1905. Serial No. 245,203.

824,326—Metallic window frame and sash. William B. Yeager, Reading, Pa. Filed Dec. 11, 1905. Serial No. 291,252.

824,302—Method of making sheet metal elbows. William H. Klauer, Dubuque, Iowa. Filed Sept. 19, 1905. Serial No. 279,203.

834,308—Gas burner. Henry W. O'Dowd, New York, N. Y. Filed Sept. 10, 1902. Renewed Dec. 6, 1904. Serial No. 235,744.

824,337—Gas generating furnace. Charles A. Buzzell, Newburyport, Mass. Filed July 10, 1905. Serial No. 269,-050.

824,338—Gas heating apparatus. Augustus C. Carey, Boston, Mass. Filed May 22, 1903. Serial No. 158,368.

824,356—Fuel feeding device. Emro Harcharick, Wilkesbarre, Pa. Filed Aug. 9, 1904. Serial No. 220,113.

824,359—Gas producer. Robert Hilprecht, Lansing, Mich., assignor to American Suction Gas Producer Company, Lansing, Mich., a corporation of Michigan. Filed June 17, 1905 Serial No. 265,778.

824,369—Fruit jar wrench. Edwin W. Macauley, Rochester, N. Y. Filed Aug. 3, 1905. Serial No. 272,544.

824,385—Furnace. John F. Senter, Birmingham, Ala., assignor of one-half the Walsh and Weidner Boiler Company, Chattanooga, Tenn., a corporation of Tennessee. Filed Sept. 18, 1905. Serial No. 279,007.

824,413—Gas regulator. George E. Crookshank, Indiana, Pa., assignor of one-half to Kate Crookshank, Indiana, Pa. Filed March 20, 1906. Serial No. 306,956.

824,435—Washing machine. John S. Parrish, Shadwell, Va. Filed April 17, 1905. Serial No. 256,114.

824,447—Gas broiler. Henry Gandar, New York, N. Y. Filed July 15, 1905. Serial No. 269,869.

824,493—Cooler, D. McRa Livingston, New York, N. Y. Filed Nov. 25, 1905. Serial No 289,052.

824,499—Wrench. Peter Matusak and George Slaine, Greensburg, Pa. Filed Jan 2, 1906. Serial No. 294,143.

Trade Report.

THE HARDWARE SITUATION.

The seasonable falling off in demand which in other years has been very marked in the summer months has so far failed to materialize, and business continues to be brisk. The total business for the first half of the fiscal year, which closed on June 30, surpassed all previous records, and there is every indication that it will continue to be equally good during the remaining half of the year. Distributers are experiencing difficulty in securing goods to keep up stocks, and the many filling-in orders received from retail merchants would indicate that requirements had been greatly underestimated. Manufacturers are showing no inclination to make concessions in prices and the indications point to the present basis of values continuing in nearly all lines. Prompt deliveries are still hard to obtain and there is not much prospect of better conditions in this respect for some little time yet.

PLATES.

The market is considerably improved, and orders for sheared plates are freer and heavier than in several weeks. The American Ship Building Company has ordered the steel for another boat, the specifications calling for 3,700 tons. This boat will be built at the Superior ship yard. Early deliveries of Universal plates can now be obtained and they continue in good demand. On Sheared plates deliveries cannot be made under thirty days. We quote mill prices, Chicago delivery, as follows:

Tank steel, ¼ inch and heavier, up to 100 inches wide, 1.76½c base; flange steel, 1.86½c base; marine steel, 1.96½c base; all full extras. Plates 3-16 inch thick, $2 extra; gauges, 7 to 8, $3 extra; No. 9, $5 extra. Less than carload lots, $5 extra. We quote from local stocks: Tank steel ¼ inch and heavier, up to 72 inches wide, 2c to 2.10c; 72 inches to 96 inches wide, 2.10c to 2.20c; 3-16 inch up to and including 60 inches wide, 2.10c to 2.20c; 3-16 inch 72 inches wide, 2.35c to 2.45c; No. 8, up to 60 inches wide, 2.15c to 2.25c; flange steel, 25c extra; heads, 25c extra.

SHEETS.

It is very hard to get deliveries on both Black and Galvanized sheets, and on some sizes it will be impossible to get shipments until the end of September. Many of the Western independent sheet mills will shut down this week and will remain closed until July 16. Prices continue firm, and we quote as follows: Blue Annealed, Nos. 9 and 10, 1.96½c to 2.01½c; Nos. 16 and 17, 2.16½c to 2.21½c; Box Annealed, Nos. 18 to 20, 2.36½c to 2.41½c; No. 27, 2.56½c to 2.61½c; No. 28, 2.66½c to 2.71½c; Galvanized Sheets, Nos. 10 to 14, 2.71½c; Nos. 17 to 21, 2.96½c; Nos. 22 to 24, 3.11½c; Nos. 25 and 26, 3.31½c; No. 27, 3.51½c; No. 28, 3.71½c; No. 30, 4.21½c. Sheets from store: Blue Annealed, Nos. 10 and 11, 2.10c to 2.20c; Nos. 12 and 13, 2.15c to 2.25c; Nos. 14 and 15, 2.20c to 2.30c; No. 16, 2.30c to 2.40c; Box Annealed, Nos. 18 to 20, 2.50c to 2.55c; Nos. 22 to 24, 2.55c to 2.60c; No. 26, 2.60c to 2.65c; No. 27, 2.65c to 2.70c; No. 28, 2.75c to 2.80c; No. 30, 3.15c to 3.20c. Galvanized from store: Nos. 10 to 20, 3c to 3.05c; Nos. 22 to 24, 3.15c to 3.20c; No. 26, 3.35c to 3.40c; No. 27, 3.55c to 3.60c; No. 28, 3.75c to 3.80c; No. 30, 4.95c to 5c.

OLD MATERIAL.

There has been little, if any, change in the market this week, and it continues very dull. Cast scrap continues to be a little higher than other material, but this is due more to its limited outcome than to heavy consumption by local foundries. We quote as follows:

Old Steel Rails (4 feet and over)	$15.50 to 16.00
Old Steel Rails (less than 4 feet)	14.00 to 14.50
Old Car Wheels	18.00 to 18.25
Old Iron Rails	20.50 to 21.00
Relaying Rails, subject to inspection	27.00 to 27.50
Heavy Melting Steel	13.00 to 13.50
Mixed Country Steel	11.00 to 11.50

We quote net tons, as follows:

No. 1 R. R. Wrought	$13.25 to 13.50
No. 2 R. R. Wrought	12.25 to 12.50
Shafting	15.75 to 16.00
Dealers' Forge No. 1	11.25 to 11.50
Wrought Pipe and Flues	9.25 to 9.50
No. 1 Cast, 150 pounds and less	13.00 to 13.50
No. 1 Mill	8.25 to 8.50
Mixed Busheling (No. 1 and No. 2)	8.50 to 9.00
Country Sheet	7.25 to 7.50
No. 1 Boilers Cut	9.25 to 9.50
Boiler Punchings	11.00 to 11.50
Iron Car Axles	22.50 to 23.00
Steel Car Axles	17.50 to 18.00
Iron Axle Turnings	9.25 to 9.50
Cast Borings	7.00 to 7.50
Mixed Borings, etc.	7.00 to 7.50
Machine Shop Turnings	9.00 to 9.25
Railroad Malleable	12.50 to 13.00
Agricultural Malleable	12.50 to 13.00
Stove Plate and Light Cast Scrap	10.50 to 11.00
Old Iron Splice Bars	16.00 to 16.50

PIG IRON.

The announcement of an advance of 50c a ton on Southern iron, effective June 29, broke the deadlock between producers and consumers in this market, and in almost every case leading melters covered their needs in Southern iron for the last half of the year. All the standard brands of Southern iron are now held firmly at $13.50, Birmingham, for No. 2. We quote as follows, f. o. b. Chicago:

Lake Superior Charcoal	$19.00 to 19.25
Northern Coke Foundry, No. 1	18.50 to 18.75
Northern Coke Foundry, No. 2	18.00 to 18.25

Northern Coke Foundry, No. 3	17.50 to 17.75
Northern Scotch, No. 1	19.25 to 19.50
Ohio Strong Softeners, No. 1	18.55 to 18.80
Ohio Strong Softeners, No. 2	18.05 to 18.30
Southern Coke, No. 1	17.65 to 17.90
Southern Coke, No. 2	17.15 to 17.40
Southern Coke, No. 3	16.65 to 16.90
Southern Coke, No. 4	16.15 to 16.40
Southern Coke, No. 1 Soft	17.65 to 17.90
Southern Coke, No. 2 Soft	17.15 to 17.40
Southern Gray Forge	15.90 to 16.15
Southern Mottled	16.65
Malleable Bessemer	18.00 to 18.25
Standard Bessemer	19.30 to 19.55
Jackson Co. and Kentucky Silvery, 6%	20.30 to 20.80
Jackson Co. and Kentucky Silvery, 8%	21.30 to 21.80
Jackson Co. and Kentucky Silvery, 10%	23.30 to 23.80

TIN PLATE.

The leading mills are now holding their prices on the basis of $3.75 per box of 100 lbs. for coke tins, 14x20 inches. There is still a moderate demand, but most mills have curtailed their output in view of the fact that most consumers have covered their requirements well ahead. Quotations from dealers' stocks ex store, New York:

Bessemer steel, 107 lbs., 14x20	$4.50
Bessemer steel, 100 lbs., 14x20	4.35
Bessemer steel, 95 lbs., 14x20	4.25
Bessemer steel, 90 lbs., 14x20	4.20
American charcoal ternes, 8-lb. coating—	
Worcester grades, 14x20, 107 lbs.	4.45
Worcester grades, 24x20, 100 lbs.	4.30
Worcester grades, 20x28, 200 lbs.	8.20
For prompt shipment, f. o. b. mill—	
Coke tins, 14x20, I. C.	3.90
Coke tins, 14x20, 100 lbs.	3.75
Coke tins, 14x20, 95 lbs.	3.70
Coke tins, 14x20, 90 lbs.	3.65
Charcoal terne, 20x28, I. C.	7.35
Charcoal terne, 20x28, 200 lbs.	7.05

Usual differences for odd sizes and weights.

Rogers, Brown & Co., Cincinnati, in their weekly letter, will say:

The strength of the pig iron market in general and northern furnace conditions in particular has been forcibly demonstrated during the past week. The arbitrary reduction in the face of conditions which did not justify it, the effort to get business for certain Birmingham brands regardless of price and general market influences, has resulted in the very early raising of this low level which had been made, and instead of having any adverse effect on northern prices and northern business, the opposite has seemed to be the case.

The last week in June has seen the heaviest business in several months. Contracts have been placed for both northern and southern irons, and buying has covered all grades. Large consumers have been in evidence and their careful feeling of the market and caution in regard to purchases, while resulting in large tonnage, have not brought any sudden advance, although market conditions are much stronger than they have been in all districts.

Although on the southern price sag a large tonnage was booked it was of necessity for well extended delivery and northern furnaces have not suffered in comparison. The production in the South has been off for some time and is very slow in improvement, the bulk of sales prior to recent reduction being for nearby shipment. Sales and inquiry continue active and a large tonnage is reported from all points. Basic and Bessemer are scarce and prices are stronger than they have been, recent contracts placed for the latter having practically cleaned up the supply for the next three months.

The market on Ferro Manganese is reported advancing, with several foreign manufacturers fearing shortage of ore supply.

It is interesting to note the latest statistics on the world's railroad building show that during 1904 there were 16,700 miles new line constructed, which is three and one-tenth per cent over 1903, and is the largest addition reported for years. Of the addition made during 1904 to the world's mileage, nearly two-thirds was in America, and hardly one-fifth in Europe, the American mileage being 11,160; the nearest competitor being the Continent of Europe with 3,090, an evidence of the great advance in this regard being made in North America. More than two-thirds of this American mileage is in the United States.

Flattering reports continue from the western crop districts and the western railroads claim that the wheat crop will be one of the largest in history, and they are making efforts to take care of it accordingly. The demand for all lines of finished materials continues excellent in spite of the fact that this is a dull buying period of the year. Sales of structural material continue to be made, although it is reported that the mills are practically sold up for the balance of 1906.

Coke is in excellent demand; prices are firm with an advancing tendency. Some of the leading ovens in the Connellsville field are not offering for nearby shipment and prices are likely to advance when they are in a position to do so. The recent closing of large furnace and foundry contracts for the balance of the year in Connellsville, Pocahontas and Virginia Districts has placed these operators on secure footing for this period.

Matthew Addy & Company of Cincinnati in their weekly letter will say:

The week just ended marks the close of the first half of 1906, which establishes a record in the iron and steel trade. Consumption has been greater during the past six months than ever before. Business continues excellent, and a large tonnage has been booked during the past week. A glance at the situation in the iron producing sections of the country gives us every reason to believe that the present prosperous state of affairs must continue. The Valley furnaces are sold up on their production and many of them are practically out of the market. Among the Ohio furnacemen the feeling is especially optimistic. Most of them have disposed of their output through the third quarter and some of them even claim to be taken care of for the entire last half. Buying in this quarter has been liberal and prices have advanced, the ruling quotation now being $16.50 Ironton for No. 2 foundry.

In the South the furnaces continue to ship out iron just as fast as it is made. Vast quantities have been sold for third quarter delivery, and buyers are already beginning to urge prompt shipment of their iron, and production is still off.

Basic and Bessemer continue in active demand and several large malleable deals are reported.

That the general tone of the market is decidedly healthy and the feeling a most buoyant one there can be no doubt. The recent activity has not been in the form of a "flurry," but represents bonafide purchases of iron to cover contracts actually placed for finished material. The outlook for the balance of the year seems exceptionally bright from every viewpoint.

The coke market is active and prices are firm. There is every prospect of the $3.00 price on 72-hour fonndry coke being maintained, and large contracts for Connellsville furnace coke are being placed at $2.50.

Current Hardware and Metal Prices.

THE AMERICAN ARTISAN AND HARDWARE RECORD is the only publication containing western hardware and metal prices corrected weekly.

METALS.

FIRST QUALITY BRIGHT PLATES.

		Per Box
IC	14x20	$7 2[illegible]
IX	14x20	8 25
IXX	14x20	9 4[illegible]
IXXX	14x20	10 6[illegible]
IXXXX	14x20	11 8[illegible]
IC	20x28	14 5[illegible]
IX	20x28	16 5[illegible]
IXX	20x28	18 9[illegible]
IXXX	20x28	21 3[illegible]
IXXXX	20x28	23 7[illegible]

COKE PLATES.

Cokes, 180 lbs	IC	20x28	$9 0[illegible]
Cokes, 200 lbs	IC	20x28	9 3[illegible]
Cokes, 216 lbs	IC	20x28	9 7[illegible]
Cokes 270 lbs	IX	20x28	11 7[illegible]

PIG IRON.

Lake Sup. Charcoal	$19 00@$19 2[illegible]
North'n Fdy., No. 1	18 80@ 19 0[illegible]
North'n Fdy., No. 2	18 80@ 18 5[illegible]
North'n Fdy., No. 3	17 80@ 18 0[illegible]
Northern Scotch Fdy.	18 80@ 19 0[illegible]
Ohio Strong Softeners, No. 1	19 80@ 20 0[illegible]
Ohio Strong Softeners, No. 2	19 30@ 19 5[illegible]
Southern Fdy., No. 1	18 15@ 18 4[illegible]
Southern Fdy., No. 2	17 65@ 17 9[illegible]
Southern Fdy., No. 3	17 15@ 17 4[illegible]
Southern Fdy., No. 4	16 65@ 16 9[illegible]
Southern No. 1 Soft	18 15@ 18 4[illegible]
Southern No. 2 Soft	17 65@ 17 9[illegible]
Southern Gray Forge	16 15@ 16 4[illegible]
Southern Mottled	15 90@ 16 1[illegible]
Southern Silveries, 4 to 6 per cent Silicon	17 90@ 18 15
Jackson Co. Silveries, 8 to 10% Silicon	22 30@ 23 30
Ala. and Geo. Car Wheel	23 90@ 24 40
Malleable Bessemer	18 30@ 18 5[illegible]
Basic Iron	18 85

BLACK STEEL SHEETS.

Nos. 11-12 per 100 lbs	$2 00
Nos. 13-14 per 100 lbs	2 05
Nos. 15-16 per 100 lbs.	2 1[illegible]
Nos. 17-21 per 100 lbs.	2 15
Nos. 22-24 per 100 lbs.	2 20
Nos. 25-26 per 100 lbs.	2 25
No. 27 per 100 lbs.	2 30
No. 28 per 100 lbs.	2 40

GALVANIZED.

Nos. 10-11 per 100 lbs.	$2 35
Nos. 12-14 per 100 lbs.	2 45
Nos. 15-16 per 100 lbs.	2 55
Nos. 17-21 per 100 lbs.	2 70
Nos. 22-24 per 100 lbs.	2 85
Nos. 25-26 per 100 lbs.	3 05
No. 27 per 100 lbs.	3 25
No. 28 per 100 lbs.	3 45

POLISHED SHEET STEEL.

No. 24 per 100 lbs.	$4 60
No. 26 per 100 lbs.	4 70
No. 27 per 100 lbs.	4 80
No. 28 per 100 lbs.	4 90

SMOOTH STEEL.

Wood's Smooth, No. 20	$2 90
" " No. 22-24	2 95
" " No. 25-26	3 00
" " No. 27	3 05
" " No. 28	3 15

PATENT PLANISHED SHEET STEEL.

Patent Planished Sheet Steel. "A" $10 20, "B" $9 20

Dickey Planished Sheet Steel ... 8½c

GALVANIZED IRON.

Regular Sizes.

No 16, per 100 lbs.	$3 2[illegible]
Nos. 18 & 20, per 100 lbs	3 35
Nos. 22 & 24, per 100 lbs.	3 70
No. 25, per 100 lbs	3 90
No. 27, per 100 lbs	3 50
No. 28, per 100 lbs	4 70
No. 30, per 100 lbs	5 90
Nos. 22 & 24 x 36 in., per 100 lbs.	3 10
No. 26 x 36 in., per 100 lbs.	3 90
No. 27 x 36 in., per 100 lbs.	4 10
No. 28 x 36 in., per 100 lbs	4 30

SOLDER.

XXX Guaranteed ½ & ½ per lb.	29 c
Commercial ½ & ½ per lb.	28½c
No. 1 Plumbers	27 c

SHEET ZINC.

600 lb. Casks case, per cwt.	0 90
300 lb. Casks per cwt.	7 92
Sheets per cwt.	7 77

COPPER.

Copper ... base, 21c

TIN PIGS AND BARS.

Banca, pigs, per lb	50c
Straits, pigs, per lb	50c
Straits in bars, per lb	52c

LEAD.

American Pig	$4 60@$4 62½
Bar	6½c
National (White) brands (in less than 100 lb. lots), per lb	7½c

Sheet.

Full coils per 100 lbs.	$7 00
Cut coils per 100 lbs.	7 25

HARDWARE.

ADZES.

Carpenters'.

Triumph	40&10%
Cutmore	50&5%

Coopers'.

Barton's	20%
White's	15%

Railroad.

Triumph	40&5%
Cutmore	50%

Ship.

Triumph	33⅓&5%
Cutmore	40%
White's	12½%

AMMUNITION.

Caps, Percussion—per 1,000.

F. L. Waterproof, 1-10s	40c
G. D.	35c
Musket	60c

Cartridges.

Winchester Rim Fire Ctgs	50&3%
Winchester Cent Fire, Pistol and Rifle	25&3%
Winchester Cent Fire, Military and Sporting Ctgs	15&8%
Winchester Blank Ctgs. 22 cal.	$1 25
Winchester Blank Ctgs. 32 cal., C. F.	4 60
Winchester BB Caps, Rnd. ball	1 50
Winchester BB Caps, Conical ball	1 95
Winchester Cent. Fire, Military and Sporting Ctgs	15&8%

Primers.

Berdan Primers	$1 00
Winchester Primers	20%

Shells.

New Rival Empty Paper Shells, 10 and 12 gauge	25%
New Rival Empty Paper Shells, 16 gauge	20%
Repeater Empty	20%
Leader Smokeless	25%
Winchester Repeater Loaded Shells	40&5%
Winchester Leader	40-10&10%
New Rival Loaded Shells	33⅓ & 11%

Gun Wads—per 1,000.

Winchester Gun Wads	15%

Powder.

	Each
DuPont's Sporting, kegs'	$4 50
" " ½ kegs	2 50
" " ¼ kegs	1 40
Dupont's Sm'k'less. 50-lb. drum	22 45
" " 25-lb. kegs.	11 25
" " 12½-lb. kegs	5 80
" " 6½-lb. kegs	2 97
" " 1-lb. cans	51

Shot.

Drop shot, sizes smaller than B, 25-lb. bags, per bag	1 70
Drop shot, B and larger sizes, 25-lb. bags, per bag	1 95
Buck Shot, 25-lb. bags, per bag	1 95
Chilled Shot, 25-lb. bags, "	1 95

ANCHORS.

Expansion Screw Anchors ... 10%

ANVILS.

Trenton, 70 to 80 lbs	9½c per lb
Trenton, 81 to 150 lbs	9½c per lb

ASBESTOS.

Board and Paper ... 33⅓%

AUGERS.

Boring Machine	70%
Irwin's	40&10%
Carpenters' Nut	70%

Hollow.

Bonney's—list $30.00	75&5%
Stearn's, No. 3 "	36 00

Post Hole.

Digwell, 8-inch per doz.	12 50
Iwan's Post Hole and Well	40&5%
Vaughan's, 4 to 9-in., per doz.	6 25

Rafting.

Snell's	50&5%

Ship.

Ford's, with or without screw	40-5%
Snell's, " " "	40-5%

AWLS.

Brad.

No. 3 Handled per doz.	$0 40
No. 1050 Handled "	80
Shouldered, assorted, 1 to 4, per gro.	1 20
Patent asst'd, 1 to 4 "	1 20

Harness.

Common "	1 20
Patent "	90

Peg.

Shouldered per gro.	$1 20
Patent "	60

Scratch.

No. 1, handled "	4 80
No. 15, socket handled. per doz.	1 25
No. 7 Stanley "	1 80

Sewing.

Common per gro.	90
Patent "	90

AXES.

Boy's Handled.

Lippincott, 3 lb per doz.	$6 50
Cutmore "	6 75

Broad.

Triumph, West, Pat	40-10&5%
Triumph, Can. Pat	50&10%
Firemen's (handled) per doz	$13 00
Miners' (handled) "	6 50

Single Bitted (handled).

Silver Eagle, 3 to 4 lbs., pr dz.	$10 50
Cutmore " " "	8 75
Keystone " " "	9 25
Forest Clipper " " "	8 50
Premier " " "	6 75
Crescent " " "	5 75

Single Bitted (without handles).

Cutmore, per doz. 3 to 4 lbs.	$6 75
Forest Clipper, " "	6 50
Keystone, " "	7 25
Perfect " "	6 75
Premier " "	5 00
Silver Eagle " "	8 25

Double bitted (without handles).

Cutmore, 3 to 4 lbs. per doz.	$8 75
Silver Eagle, " "	10 25
Keystone " "	9 50

The above prices on axes of 3 to 4 lbs. are the base prices.

3½ to 4½ lbs. advance 25c.
1 to 5 lbs. advance 50c.
1½ to 5½ lbs. advance 75c.

BAGS, PAPER NAIL.

Pounds	10	16	20	25
Per 1,000	$3.00	4.50	5.50	6.00

BALANCES, SPRING.

Frary's	50%
Pelouze	20%

BARS, CROW.

Pinch or Wedge Point ... cwt. $3 25

BASKETS.

Clothes.

Small Willow per doz.	$5 75
Medium " "	6 50
Large " "	7 25

Galvanized Iron.

	½ bu.	1 bu.	1½ bu
Per doz.	$4 00	5 50	7 00

BEATERS.

Carpet.

	Per doz
No. 11 Coppered Spring Wire	$1 00
No. 12 Tinned Spring Wire	80
No. 10 Woven Wire	1 10

Egg.

	Per doz.
No. 50 Imp. Dover	$0 75
No. 102 " " tinned	85
No. 150 " " hotel	1 50
No. 10 Heavy hotel tinned	2 10
No. 13 " " "	3 30
No. 15 " " "	3 60
No. 18 " " "	4 50

BELLOWS.

Blacksmiths'	65%

Hand.

8 inch per doz.	$8 00
10 inch "	10 00

Moulders'.

12 inch "	13 00

BELLS.

Call.

3 in. Nickeled Rotary Bell, bronzed base per doz.	$5 00

Cow.

High Grade	60&10%
Kentucky	70%

Door.

	Per doz.
New Departure Automatic Rotary.	$6 00
3 in. Old Copper Bell	4 00
3 in. Old Copper Bell, fancy	6 00
3 in. Nickeled Steel Bell	4 50
3½ in. Nickeled Steel Bell	5 00

Hand.

Hand Bells, polished	50@50&5%
White Metal	50%
Nickel Plated	40%
Swiss	60&5%
Silver Chime	33⅓%

Miscellaneous.

Church and School, steel alloy	50&10%

Farm, lbs	40	50	75	100
Each	$1.10	1.40	2.00	2.75

BEVELS, TEE.

Stanley's, rosewood handle, new list	40&5%
Stanley's iron handle	40%

BINDING, OILCLOTH.

Zinc	80&5%
Brass	75%
Brass Plated	75&10%

BITS.

Auger.

Extra Double Spur	70&10%
Ford's Car and Machine	40&10%
Triumph	50&5%
Ford's Ship	40&10%
Irwin	50&5%
Russell Jenning's	25&10%
Clark's Expansive	60&5%
Steer's " Small list, $22.00	30%
" " Large " $26.00	30%
Irwin Car	45%
Ford's Ship Auger pattern Car	40&10%
Center	40&10%

Countersink.

No. 18 Wheeler's per doz.	$1 25
No. 20 " "	1 75
American Snail head. "	75
" Rose " "	90
" Flat "	75
Mayhew's Flat "	1 25
" Snail "	1 25

Dowel.

New Jennings	40&10%

Gimlet.

Standard Double Cut	60%
German Pattern per doz.	$0 60
German "	65
Gouge "	80
Spoon "	80
Countersink "	1 00

Reamer.

Jenning's Square "	2 50
Standard Square "	75
German Octagon "	75

Screw Driver.

No. 7 Common "	50
No. 1 Triumph "	1 25
No. 2 " "	1 50
No. 340 Shepardson's "	1 25
No. 1 Smith's "	1 25

BLACKING, STOVE. (See Polish)

BLADES, SAW.

Butchers'.
Standard ¾ & 1½ in. 40%
Clock Spring 40%
Star 15%
Coil ..... each $1 50
Hack.
Disston's ..... 25&5%
Flexible ..... 33⅓&5%
Cutmore 33⅓%
Wood.
Jackson's ..... per doz. $2 25
Disston's—No. 6, 16, 26 & 045 .. 4 25
Triumph 3 50
Forest Clipper 3 00

BLOCKS.

Snatch.
Wooden ..... 55&10%
Steel ..... 40&10%
Tackle.
Iron Strapped ..... 70&10%
Coin Steel ..... 60&10%

BOARDS.

Stove 40%
Wash.
Globe, single ..... per doz. $2 25
" double ..... " 2 75
Magnolia ..... " 2 65
Crystal Glass ..... " 3 40
Brass King ..... " 3 40
Nickel Plate ..... " 3 40
Enamel King ..... " 3 40

BOBS, PLUMB.

Carpenters'.
No. 2, iron ..... per doz. $0 65
No. 00, " ..... " 1 30
No. 0, " ..... " 1 80
No. 3, lead ..... " 2 90
No. 4, " ..... " 3 40
No. 113, brass plated. " 1 10
No. N30, nickel plat'd " 1 30
No. N31, " " " 1 85

BOLTS.

Carriage, Machine, Etc.
Carriage ⅜x6 and sizes smaller and shorter ..... 75&5%
Carriage, sizes larger and longer than ⅜x6 ..... 65%
Machine, ⅜x4 and sizes smaller and shorter 75%
Machine, sizes larger and longer than ⅜x12 ..... 65%
Machine, longer and larger than ⅜x12 ..... 65%
Elevator ..... 50-10&5%
Plow ..... 60&10%
Stove ..... 80&10&5%
Tire ..... 75&10%
Wagon Box Strap ..... 70&10%
Mortise Door.
Gem, iron 60%
" bronze plated 20%
Barrel.
Cast 60%
Wrought 75%
" Bronzed 50%
Flush.
Wrought ..... 50&10%
Spring.
Wrought ..... 70&10%
" Heavy 70%
Square
Cast ..... 50&10%
Wrought 75%

BORERS.

Angular.
Miller's Falls ..... per doz. $13 75
Bung.
Each.
Enterprise Mfg. Co.'s No. 1 ..... $1 25
" " " No. 2 ..... 1 75
Less 20%@25%

BOXES.

Mail, No	1	2	10
Per doz	$3.25	4.25	17.50

Miter.
New Langdon ..... 15&5%
Stanley's 30%
Seavey's ..... each $1 25

BRACES.

Barber's ..... 50&10&10@50&10&15%
Fray's Genuine Spofford's 60%
" Nos. 66 to 146 ..... 50%
" No. 0108 ..... $3 50
" No. 0110 ..... 3 75
" No. 08 ..... 2 75
" No. 010 ..... 2 85

BRACKETS.

Hay-Rack.
Wenzelmann's No. 1 per doz. $9 60
" No. 2 " 10 20
Shelf.
Cast Iron, Bronzed 50, 10, 5%
Griffin Wrought Steel ..... 75&10%
" Folding ..... 70&10%

BROILERS.

Wire ..... 70&10%
Crown, Self-Basting, No. 80. doz. $2 50

BUCKETS.

Pump Rubber.
Wychoff ..... per gr. $4 75
Cooper ..... " 4 75
Champion ..... " 7 50
Victor ..... " 9 25
Star ..... " 5 00
IXL ..... " 6 75
Well.

Galv'd Qts	10	12	14
Per doz	$2.90	$3.25	$3.40

Wooden, top ear, plain, per doz 3 75
" " swivel " 4 85

BUCKS, SAW.

Folding ..... per doz. $2 10

BURRS, RIVETING.

Copper Burrs only ..... 35-10&5%
Tinners' Iron Burrs only 70%

BUTTS.

Cast Iron ..... 65-10&5%
Wrought Brass 15%
Wrought Steel Bright.
Griffin ..... 75&10%
" Ball Tip ..... 75-10-10&10%
" " Bronzed 70%
Wrought Steel, Japanned.
Nos. 731 and 733 ..... 70-10-10&10%

CALIPERS.

Double 78%
Inside and Outside ..... 70&10%
Wing 70%

CALKS.

Logger's Boot.
(Lufkin R. Co.'s), per M $3 75
Toe.
Shoenberger ..... per ℔ 5 c
Bessemer ..... " 4½c
American ..... " 7 c
Swedes ..... " 8½c

CANS.

Cheese Factory.
Ontario Pattern.

Gallons	20	30	40
Each	$3.85	$4.50	$5.65

Milk.
Holstein.

Nos	300	301	302
Gals	5	8	10
Per doz	$20.00	$21.00	$22.00

Chicago Pattern.

Nos	105	108	110
Per doz	$15.00	$16.50	$18.50

Iowa Pattern.

Nos	408	410
Per doz	$19.00	$20.50

New Elgin Pattern.

Nos	705	708	710
Per doz	$19.00	$20.50	$22.00

Burn Pattern.

Nos	700	701
Gals	8	10
Price	$1.75	$2.00

CAN OPENERS.

See Openers.

CAPS, GUN.

See Ammunition.

CARPET STRETCHERS.

See Stretchers.

CARRIERS.

Hay.
Diamond, Regular ..... each $3 50
Diamond, Sling ..... " 6 50
Myers' Imperial ..... " 3 50
" Clover Leaf ..... " 3 65

CARTRIDGES.

See Ammunition.

CASTERS.

Standard—Ball Bearing ..... 50&10%
Bed ..... 60&5%
Common Plate.
Brass Wheel ..... 60&10%
Iron and porcelain wheels, new list ..... 60&5%
Philadelphia Plate, new list .. 70%
Martin's 60%
Payson's ..... 75&10%

CATCHERS, GRASS.

Carroll s No. C ..... per doz. $4.25
Wildermuth's

Nos	1	2	3
Per doz	$5.60	$5.75	$6.25
Nos	4	5	6
Per doz	$6.75	$9.50	$10.00

CHAIN AND CHAINS.

Breast Chains.
Doubleslack ..... doz. pairs $5 75
With Covert snaps. " 5 00
With slide ..... " 3 25
Without slide ..... " 2 85
Bright Ox Chains.
⅜ in. $7.25; ½ in. $5.45 per 100 lbs

Cable Coil Chain.

Inch	5/16	¼	3/16	⅛
Per 100 lbs	$9.80	$7.00	$6.00	$5 20
Inch	7/16	½	⅝	¾
Per 100 lbs	$5.00	$4.90	$4.75	$4.65
Inch	⅞	1	1¼	
Per 100 lbs	$4.55	$4.55	$4.65	

Cable Log Chain.
Advance 25c per 100 lb. on Cable Coil
Cow Tie Chains.
American 2 toggle ..... 50&5%
" toggle and snap ... 50&5%
" open & closed ring, 50&5%
Halter Chains.
American, new list ..... 33⅓&5%
German ..... 60&10%
Niagara, new list ..... 40&5
Brown's, " ..... 40&5%
Picture Chains.
Light Brass, 3 ft ..... per doz. 50c
Heavy Brass, 3 ft ..... " 75c
Pump Chain.
Galvanized, per 100 lbs $5.00
Safety Chain.
Brass ..... 60&10%
Special Steel Loading Chain.

Inch	¼	5/16	7/16
Per 100 lbs	$16.00	$13.50	$12.50

Stretcher Chains.
⅜ in. $6.50; ½ in. $7.75 per 100 lbs.
Tie-Out Chains.
Brown's ..... 70&10%
Trace Chains.
Western Standard.
6½—6-2 ..... per pair 30c
6½—8-2 ..... " 34c
6½—8-3 ..... " 33c
6½—10-2 ..... " 38c
7 —8-2 ..... " 38c
7 —10-2 ..... " 42c
7 —10-1 ..... " 48c
7 —10-0 ..... " 60c
Add 2c per pair for Hooks.
Add 2c " for Twist Link.
Wagon Stay Chains.

Inch	¼	5/16	⅜
Per 100 lbs	$6.50	$6.00	$5.50

CHALK, CARPENTERS'.

Blue ..... per gross 58c
Red ..... " 48c
White ..... " 38c
Common White Sch'l Crayon ..... " 5½c

CHARCOAL

In barrels ..... per bu. 22c

CHECKS, DOOR.

Blount 30%
Sargent's 30%

CHIMNEY TOPS.

Iwan's Volcano 50%

CHISELS.

Box,

Inches	10	12	14
Round, per doz.	$2.10	$2.25	$2.75
Flat "	2.85	3.60	4.20

Cold.
Good quality ..... per ℔ 10@19c
Socket, Framing and Firmer.
Barton's 20%
Peck, Stow & Wilcox Co 75%
For beveled back, add per doz .. 60c
Tanged, Firmer.
With handles ..... 30&5%
Choppers, See Cutters, Meat.

CHUCKS, DRILL.

Goodell's, for Goodell's Screw Drivers ..... per doz. $6 25
Yankee, for Yankee Screw Drivers 5 00

CHURNS.

Anti-Bent Wood, Gal.	5	7	10
Each	$3.90	$4.15	$4.40

Belle, Barrel 70%
Common Dash, Gal ..

	4	5	6
Per doz	$7.75	$8.50	$10.50

Hero 70%
Union, Gal ..

	5	7	10
Each	$3.65	$3 90	$4.75

CLAMPS.

Adjustable.
Martin's 30%
Carpenters'
Steel Bar 25%
Hose.
Sherman's, brass, ¾ in., per doz .33c
Double, brass, ¾ in., " 65c
Saw Filers.
Disston's list, $30.00 ..... 30%
Stearn's, No. 0, $3.50; No. 1, $11.50; No. 3, $5.00 doz.
Wentworth's. No. 1 $6.00; No. 3 $7.50

CLAWS, TACK.

Cast, wood hdle ..... per doz. 45@60c
Forged steel, wood hdle " $0.80
Solid Steel ..... " 1.60
Giant ..... " .60

CLEANERS.

Drain.
Iwan's Adjustable 55%
Iwan's Stationary ..... 40&5%
Pot.
Wire ..... per doz. $0.55
Side-walk.
Steel ..... per doz. $2.25
XLCR ..... 65&5%

CLEAVERS.

Family.

Griffin, In	6	7	8
Per doz	$5.50	$5.75	$6.25

Royal ..... per doz. 2 25
Butchers.
Beattys, Kitchen 40%

CLEVISES.

Malleable ..... 4½c ℔

CLIPPERS.

Bolt ..... $1.90@$4.75

CLIPS.

Axle ..... 65&5%
Damper.
Standard ..... per doz. 65c
Troy ..... " 38c
Hame ..... " 17c

CLOTH.

Emery.
Triumph ..... 50&10%
B. & A 50%
Hardware Wire—full rolls (100 ft.)
2 to 8 mesh black, per 100 sq. ft. $1 85
9 to 12 " " " " 2 15
2 to 8 " galv. " " 3 00
7 and 8 " " " " 4 50
Screen Wire.
12 mesh, painted, per 100 sq. ft. $1 05
14 " " " " 1 50

COCKS AND FAUCETS.

Compression Plain Bibbs ... 60-10-3½%
Lever Bibb Cocks ..... 60&10&5%
Compression Hose Bibbs 60-10%
Telegraph Faucets (new list) ... 50-5%
Racking Cocks (new list) ..... 60&20%
Compression Lock C'ks(n'w list) .. 70%
Andrew's Brass Faucets 70%
Angle Plug Faucets, per doz ... $0.85
Milk Can Faucets, per doz ... $2.60-4.20
Petroleum Faucets (new list) 70&10%

COLLARS, STOVE PIPE.

Inches	5	6	7
Plain Tin ... per gro	$1.60	$2.00	$3.00
Japanned Tin "	3.00	3.00	4.25
Lacquered Brass "	2.75	3.25	4.00

COMBS, CURRY.

Nos	000	11	15	30	80	108
Per doz.	$0.32	.55	1.85	.85	1.10	.75

Nos	299	320	390	532	620	1400
Per doz.	$1.00	.80	1.30	1.15	.70	1.35

COMPASSES.

Carpenters' 70%
Pencil—Faber's ..... per doz. $1.00

COPPER—See Metals.

COPPERS.

Soldering.
1 ℔ ..... per ℔ 32c
1½ ℔ ..... 29c 2 ℔ .... " 28c
3 ℔ and larger ..... " 26c

CORD.

Picture.
White Wire ..... 80-10&5%
Sash.
Baltic Braided Flax ..... per ℔ 20c
Silver Lake, white 7-32 in. " 29c
" " " 8-32 in. " 29c
Keystone ..... 8-32 in. " 26c

CORKSCREWS.

Humason & Beckley 33⅓%
Walker's 33⅓%
Williamson's Regular 50%
Williamson's Forged Worm 50%

COTTERS, SPRING.

All sizes—new list ..... 90&10%

COUPLINGS, HOSE.

Brass ..... per doz. $1.00
Brass Plated ..... " .85

COVERS, WAGON—See Tents.

CRADLES, GRAIN.

Morgan's Grapevine ... per doz. $22.75

CRAYONS—See Chalk.

CROW BARS.

Pinch or Wedge Point, per 100 lbs. $3.25

CUTTERS.

Glass.
Red Devil 45%
Smith & Hemenway Co. 50%
Woodward 40%
Meat.
Enterprise Nos. 5, 10, 12, 22, 32 and 42 ..... 25%
No. 202, list, $1.50 ea. ..... 40&7½%
Universal... Nos. 1 2 3
Per doz. $10.50 $12.50 $17.00
Pipe
Stanwoods... No. 1 2 3
Each $0.85 $1.50 $4 00
Slaw and Crout.
3-knife Crout ..... per doz. $9 75
1-knife Slaw ..... " 1 65
2-knife " ..... " 2 25
Washer ..... " 7 75

DAMPERS, STOVE PIPE.

Standard ..... 50&10%
American ..... 45&10%

DIES, STOCKS AND

Discount ..... 40&5%
King's, Little Giant 33⅓%

DIGGERS.

Post Hole.
Acme ..... per doz. $8 75
Atlas ..... " 8 50
Eagle ..... " 5 75
Eureka ..... " 7 00
Hercules ..... " 9 75
Iwan's Split Handle ..... " 7 00
Iwan's Perfection ..... " 7 75
Iwan's Hercules pattern " 9 00
Ryan's ..... " 17 00
See also Augers—Post Hole.

DOOR CHECKS—See Door.

DOORS, SCREEN.

⅞ in. 4-panel painted, per doz. $7 93
1⅛ in. " " " 9 50
1⅛ in. 3-panel natural pine, fancy ..... per doz. 12 40

DOOR HANGERS—See Hangers.

DRILLS.

Bit Stock ..... 60% & 65&5%
Blacksmith's Twist 60%
Breast.
Common ..... each, $2 25
Millers Falls ..... " 2 10
Hand
Goodell's Automatic.
Nos. 01 03 3 20
Per doz. ..$7.75 $12.50 $14.25 $11 00
Goodell's Single Gear per doz. 15 75
Millers' Falls " " " 12 75
" " Double " " 15 25
Reciprocating.
Goodell ..... per doz. $16 50
Bit Stock.
Standard list... 60&5%@60%@10%

DRIVERS, SCREW.

Hurwood ..... 40-10&10%
Standard ..... 65&10%
Triumph ..... 70&5%
Champion 45%
" Pattern ..... 60, 10&5%
Clark's Interchangeable 30%
Edison 60%
Reed's Lightning ..... 45&5%
Goodell's Spiral ..... 50, 10, 5&2½%
Yankee Ratchet 50%
" " Spiral ..... 50&10%
Smith & Hemenway Co. ..... 40&5%

EAVES TROUGH. GALVANIZED.

Territory. L. C. L.
Eastern ..... 80&2½%
Central ..... 75&10&7½%
Southern ..... 75&10
Western ..... 75&10
S Western ..... 75&2½
Terms, 2% for cash. Factory shipments generally delivered.
See also conductor pipe and elbows.

EGG BEATERS—See Beaters.

ELBOWS.

Adjustable Stove.
Inches 5 6 7
Smooth per doz. $0.70 $0.75 $1.10
Plan'd " 1.80 2.00 2.65
Corrugated Conductor.
Discount ..... 60&10%
Corrugated Stove.
Inches 5 6 7
Smooth, per doz. $0.70 $0.80 $1.30
Pol'd " 1.30 1.40 2.10
Plan'd " 2.00 2.20 3.00
Four-Piece Stove.
Inches 5 6 7
Smooth. per doz. 0 10 $0.52 $0.80
Pol'd " .80 1.00 1.20
Plan'd " .90 1.40 2.40

EMERY CLOTH—See Cloth.

EMERY, TURKISH.

Size ..... 5-lb. pkgs. ¼ kegs, kegs
No. 60 to 150, per lb. 6c 4c 4c
Flour ..... " 5c 3c 3c

ENAMEL, IRON.

Nubian, ½-pt. cans ..... per doz. 1 80
Peerless 1 50
Keystone 1 25

EXTRACTORS, PIG.

See Forceps, Pig.

EYES.

Bright Wire Screw—See Goods, B. W
Drifting Pick ..... 60, 10&5%
Hooks and—
Brass 55%
Iron ..... 65&5%

FASTENERS, STORM SASH

Schroeder's ..... per doz. 85
Sensible ..... " 1 15

FAUCETS—See Cocks.

FILES AND RASPS.

Nicholson's ..... 70&10%
Disston's ..... 75&10%
Challenge ..... 70&10%
Royal ..... 80&10%

FLUE STOPPERS—See Stoppers.

FORCEPS, PIG.

Superior ..... per doz. $4 75
Whisson's Imp ..... " 5 25

FORKS.

These goods are sold net this year.
Barley.
Steel, New List ..... 70&10&5
Wood, 4 tines, per doz. $3.25
Coal, Coke, Cottonseed 60%
Hay.
Batcheller, 2 tine ..... 60&10%
" 3 " 70%
" 4 " ..... 70&7½%
Digging ..... 70&10%
Scoop 40%
Header.
Batcheller, 3 tine ..... 66⅔&5%
" 4 " ..... 65&10%
Manure.
Batcheller, 4 tine ..... 70&5%
Ore 40%
Spading.
Batcheller ..... 80&10%

FRAMES.

Hack Saw.
Union ..... per doz. $5 75
Jenning's ..... " 6 25
Cast ..... " 2 50

FREEZERS, ICE CREAM.

Arctic.
Qts. 1 2 3 4 6
Each $1.10 1.30 1.50 1.80 2.30
Qts. 8 10 12 15
Each $2.95 3.80 4.50 5.20
White Mountain.
20 qt., New Platform ... each $19 10
25 qt., " " " 22 60
25 qt., Simpson Power . " 43 50
40 qt., " " " 58 25

GAUGES.

Butt and Rabbet.
Stanley R. & L. Co.'s ..... 50&10%
Cream Pail.
Fairmont ..... per doz. $3 75
Marking, Mortise, etc. .....
..... 50&10%
Saw.
Atkin's, single, 55c; dbl. 80c per doz
Wire.
Disston's 25%

GIMLETS.

Discount ..... 35@40%

GLASS, WINDOW.

First two brackets ..... 90&20%
Above " " ..... 90&10%

GLASSES, LEVEL.

Stanley R. & L. Co. ..... 50&5%

GLUE.

Bulk.
B Amber ..... per lb. 11 c
A White ..... " 13½c
H. S. Amber ..... " 15½c
Liquid.
Army & Navy 40%
Le Page's—
List "A" 37½%
List "B" 33⅓%
List "C" 25%

GOODS.

Bright Wire ..... 90&10%

GREASE, AXLE.

Wood Boxes.
Diamond ..... per gro. $5 50
Frazer's 9 50
Hub Lightning 5 25
Paragon 6 75
Wood Pails.
Frazer's, 15 lb. 80c; 25 lb. $1.30 each
Hub Lightning, 15 lb. 55c; 25 lb. 70c each.
Tin Cans.
Chemellene Graphite.
1½ per gross $9 50
3 lb. per gross 25 00
5 lb. per gross 37 00

GRIDDLES.

Soapstone ..... 40&10%

GRINDSTONES.

Family.
Inches 7 8 9
Per doz. $8.25 9.00 10.50
Loose.
Per ton ..... $20 00@$21 00
Mounted.
Ball Bearing 1 2 3
Each $3.15 3.00 2.85
Common Bearing .. 1 2 3
Each $3.00 2.80 2.65

GUN WADS.
(See Ammunition.)

HAFTS, AWL.

Brad.
Common ..... per doz. $0 19
Peg.
Common ..... " 22
Patent, plain top ..... " 47
" leather top ..... " 52
Sewing.
Common ..... " 22
Patent ..... " 52

HALTERS.

Jute Rope ..... per doz. $0 85
Sisal Rope ..... " 1 85
Web ..... " 1 75
Leather, rope tie ..... " 6 50
" leather tie ..... " 8 50

HAMMERS, HANDLED.

Blacksmiths' Hand.
Maydole's ..... 40&10%
Engineers'.
Maydole's ..... 40&10%
Farriers'.
Maydole's ..... 35&5%
Machinists'.
Maydole's ..... 40&10%
Nail.
Triumph 40%
Quaker City ..... per doz. $3 00
Cast ..... " 1 10
Maydole's ..... 30&5%
Riveting.
Maydole's ..... 35&5%
Shoe.
Cast ..... per doz. 75c
Tack.
All Iron ..... per doz. $0 35
Pol'd Iron, Hickory hdl. " 50
Mall. Iron, Inlaid ..... " 1 55
Magnetic 1 2 3
Per doz 70c 80c $1.00
Magazine ..... per doz. $4 75

HAMMERS, HEAVY.

Heavy Hammers and Sledges.
Under 5 lbs 80%
5 lbs. and over ..... 80&10%
Masons'.
Single & Double Face 75%

HANDLES.

Auger.
Common Assorted ... per doz. $0 38
Peck's Adjustable ... " 2 10
Ives' " ... per set 1 35
Axe 60%
Chisel.
Hickory, Tanged Firmer, Assorted, 25c; Large, 27c per doz.
Hickory, Socket Firmer, Assorted 18c; Large, 22c per doz.
Applewood, Tanged Firmer, Assorted, 20c; large, 38c per doz.
Applewood Socket, Firmer, Assorted ..... per doz. 24c
Coal Pick ..... 50&10%
Drifting Pick ..... 50&10%
File, assorted 13c, large 16c per doz.
Hammer.
Adze Eye ..... per doz. 40c
Blacksmiths' ..... per doz. 40c@70c
Machinists' ..... " 45c@70c
Hatchet ..... per doz. 40c
Hay and Manure Fork ..... 40&10%
Hoe and Rake ..... 40&10%
Saw.
Plain ..... per doz. 75c
Varnished ..... " 80c
Screw Driver.
Assorted ..... " 37c
Large ..... " 48c
Shovel and Spade 40%

HANGERS.

Barn Door.
Challenge ..... 60&10%
Peerless ..... 70&10%
Silver Star ..... 60&5%
Storm King ..... 60@5%
World's Best 50%
Wagner's Adjustable ..... 70&10%
Warehouse 60%
Griffin ..... 70&10%
Conductor Pipe.
Griffin ..... 70&10%
Iwan's Perfection 50%
Eave Trough.
Baker's ..... per gro. $2 35
Imperial 20%
Wire 35%
Parlor Door.
Acme ..... per set $3 75
Ives' Improved ..... " 2 50
Lane's Standard ..... " 3 50
" New Model ..... " 3 10
Le Roy Noiseless ..... " 4 00
Richards' ..... 40-10&5%

HASPS.

Hinge, Wrought ..... 50&5%
With Staples—See Staples.

HATCHETS.

Challenge 40%
Blood's 50%
Cast Claw ..... per doz. $1 20@1 45
Cast Shingling ..... " $0 95@1 20
Germantown 40%
Plumb's 40%
Underhill's Star Lath ..... 40&10%

HAY KNIVES.

See Knives.

HAY RACK BRACKETS.

Wenzleman's No. 1 .... per doz. $ 9 60
No. 2 .... " 10 20

HINGES.

Blind.
Clark's Gravity ... per doz. sets 80c
Parker's 65%
Shepherd's Noiseless, for Wood casing ..... per doz. 1 05
Gate.
Clark's 1 2 3
Hgs & Lch ... doz. $2.35 2.60 3.65
Hinges only ..... " 1.70 1.90
Latches only ..... " .70 .75
Knuckle ..... per doz. prs. $6 00
Leed's ..... " sets 6 75
Superior ..... " prs. 9 50
Spring.
American 20%
Bommer Bros Ball B'g Floor .. 35%
Bommer Bros. Spring Hinges .. 40%
Chicago ..... 25&5%
Columbia Dbl Acting .... 40&10&5%
Gem 25%
Ideal Detachable .... per gro. $11.10
Matchless 30%
New Idea ..... per gro. $8.40
Oxford 20%
Wrought Iron.
New Lists .....
Griffin.
Light Strap Hinges ..... 65&10&5%
Heavy Strap Hinges ..... 75&10%
Light T Hinges ..... 60&10&7½%
Heavy T Hinges ..... 55&10%
Extra Heavy T Hinges .... 70-10&5%
Cor. Heavy Strap ..... 75&10%
Cor. Ex. Heavy T ..... 70&10&5%
Screw Hook and Strap.
6 to 12 in ..... per 100 lbs. $3 90
14 to 20 in ..... " " 3 65
22 to 36 in ..... " " 3 40
Screw Hook and Eye.
¾ in ..... per 100 lbs. $6 55
⅝ in ..... " " 7 60
½ in ..... " " 9 45

HOES.

Garden ..... 75&5%
Grub.
Extra 70%
Hazel ..... per doz. $5 00
Ladies' and Boys' ..... 75&10%
Mortar 80%
Planter's Eye 62½%
Weed ..... 75&15%

HOLLOW WARE—See Ware

HOOKS.

And Eyes.
Brass ..... 50&10&5%
Iron ..... 65&10%
Awning ..... per gro. $1 80
Belt.
Brown's ..... 70&5%
Jones' ..... 65&5%
Bench.
See Stops, Bench.

Box.
Inch..... 6 8 10 12
Per doz.....$1.35 1.65 1.75 2.30
Hutmason & Beckley's, per doz. 2 50
(See Goods, Bright Wire.)
Bush.
Common Axe Handle, per doz. $7 00
Chain
Incl... 1/4&5/16 3/8 7/16 1/2
Per 100 $7.60-8.10 9.75 11.50 12 60
Clothes Line.
Japanned.....per doz. 22c@24c
Galvanized..... " 40c
Coat and Hat.
Cast Iron .....per gro. 72c@$1 50
Gem Wire.....70¢
Conductor.
Malleable.....50&10¢@50&10&5¢
Wrought .....40&10¢@50¢
Corn.
Common, unpolished, per doz. $1 35
" polished.... " 1 80
"Cut Easy"..... " 2 75
Gate.
See Goods, Bright Wire.
Grass.
Common. Nos..... 2 3 1
Per doz $1.50 1.60 1.70
German.....per doz. 1 75
Little Giant..... " 3 00
Hammock.
With Plate.....per doz. 50c
With Screw..... " 45c
Lambrequin, or Drapery, per gro. 21c
Picture .....50¢@50&10¢
Potato and Manure.....70&12½¢
Screw.
Brass.....80&20¢
(See Goods, Bright Wire.)
Seat Spring.....per ℔. 5½c

HOOPS, TUB.

Ever Ready .....per case $1 70

HOSE, GARDEN.

3 ply ½ in. 35 ℔. pressure per ft....4½c
3 " ¾ " 50 " " " 6½c
3 " ½ " 70 " " " 6½c
3 " ¾ " 70 " " " ....8 c
4 " ½ " 80 " " " ....8 c
4 " ¾ " 80 " " " ... 9½c
6 " ¾ " 125 " " " ...10½c
8 " ¾ " 150 " " " 12c
Cotton ¾ in. 75 ℔. pressure per ft. 6c
" ¾ " 150 " " " 8c

HUSKERS.

Boss.
Nos..... B BB E 200
Per doz.... $2.00 2.00 1.75 .80
Nos..... L PP P K
Per gro..... $5.40 6.00 6.00 10.50
Nos..... 2000 3000 O
Per gro..... $3.50 9.00 24.50
Nos..... 60 59 64 68
Per doz.....$2.15 2.15 .85 1.45
Brinkerhoff's.
Per gro.....$14 40
Clark's
Nos..... 1 63 200 400
Per doz.... $0.40 .75 .75 1.75
Nos..... 200s 40s 3s 4s
Per doz..... $0.85 1.50 1.25 1.25
Nos.....A AB F
Per doz.....$3.00 $4.25 $2.50

IRON.

See Metals—First column.

IRONS.

Curling.
Common.....per doz. 33c@48c
Princess .....per doz. $0 65
Yale..... " 84
Oxford ..... " 1 15
Ruby ..... " 1 50
Tourist, Folding..... " 90
Pinking ..... " 70
Plane.
Wood Bench.....20&5¢
Stanley R. & L. Co. (new list) ...25¢
Sad.
Charcoal .....per doz. $11 00
Common, Polished, per 100 ℔. 3 25
" Nickel plated, " 4 25
Chinese Polishing.....per doz. 7 40
Laundry. No. 1 ..... " 5 75
" No. 2 ..... " 6 25
Mrs. Pott's,
No. 50 J, Enterprise...per set 79c
No. 55 J, " ... " 76c
No. 50 T, " ... " 82c
No. 55 T, " ... " 79c
No. 50, Howells..... " 74c
No. 55, " ..... " 71c
Tailors' Sad.....per ℔. 4½c
" Geese ..... " 4½c
Tuyere.
Single Duck Nest.....per doz. $5 25
Double " " ..... " 6 25
Sutton .....each 2 60

JACKS.

Locomotive.....75&5¢
Wagon.
Oliver.
Nos..... 0 00
Each..... $0.60 $0.85
Standard.
Nos..... 1 2
Each..... $0.60 1.00
Wilcox.
Nos..... 1 2 3
Each.....$0.85 1.20 2.90

KETTLES.

Brass.....15¢
Cauldron .....45¢
Copper.....per ℔. 27c
Maslin .....66⅔¢
Sugar .....50&5¢

KNIVES.

Beet Topping.
Clyde, 9-in. Scimiter Blade, dz. $3 85
California.....3 40
Cooper's Hoop.....15¢
Corn.
Clipper.....per doz. $1 75
Disston's..... " 2 75
Earle's..... " 3 00
Woodford..... " 2 25
Drawing.
Standard .....70¢
Adjustable.....15¢
Barton's Carpenters'.....10¢
Folding Handle.....25&5¢
Hay.
American, Sickle Edge..doz $10 50
Canton, Sickle Edge..... " 8 25
Heath's ..... " 8 00
Iwan's Sickle Edge..... " 9 50
Iwan's Improv'd Serrated.. " 10 00
Lightn'g, Holt's Genuine " 6 50
Lightning Pattern..... " 6 00
Wadsworth's Sp'r Point " 8 50
Hedge.
Challenge ....per doz. $6 00
Disston's..... " 3 75
Mincing.
Common, Single ..... " 40
" Double ..... " 50
Streeter, 4 Blade..... " 1 30
" 6 Blade..... " 2 00
Putty.
Common..... " 60@1 00
Lander's..... per doz. $1 40@1 75
Scraping.
Beech Handle.....75@1 00
Lander's.....5 25@6 00

KNOBS.

Door.
Mineral .....per doz. $0 73
Porcelain ..... " 83
Jet..... " 83

LADDERS.

Common Long.
Per ft .....9c@14c
Extension.
Per ft 12c
Step.
Common, per ft.....6½c
" with Shelf, add 10c.
Keystone.....15c
Triumph, per ft 20c

LANTERNS.

Bull's Eye Police.
3-in. Flash Light.....per doz.$6 00
2½-in. Regular..... " 4 00
3-in. Regular..... " 5 00
Tubular.
Prisco..... .....40&10&5¢

LEADERS, CATTLE.

Nos 1 2 3
Per doz.....$0 55 $0 70 $2 75

LEATHER, LACE.

Cut.....40&10¢
Sizes.
Ex. Quality.....per sq. ft. 24c

LEATHERS, PUMP.

Valve and Plunger .....45¢

LIFTERS.

Stove Cover.
Coppered.....per gro. 1 75@3 65
Ideal..... " 5 50
Alaska, Coppered " 4 00
" Nickeled " 5 00
Transom.
Payson's.....80¢

LINES.

Chalk.
Twisted in 20-ft. hanks.
Nos..... 4 6 7 8 9
Per gross $1 50 2 00 2 25 2 50 3 00
Twisted in 50-ft. balls.
Nos..... 1 2 3 4
Per doz.....25c 30c 35c 41c
Braided in 20-ft. hanks.
Nos 0 1 2 3
Per doz.....22c 25c 31c 35c
Masons', in 100-ft. hanks..doz... 80c
Clothes.
60-ft. Jute.....per doz $0 80
72-ft. " ..... " 1 00
60-ft. Sisal ..... " 1 30
72-ft. " ..... " 2 00
50-ft. Cotton ..... " 1 00
50-ft. Braided Cotton. " 1 10

LINING, STOVE.

In Bricks.....per crate 42c

MACHINES.

Boring.	Without Augers	With Augers
Angular... per doz.	3 00	4 40
Upright... "	2 60	4 00

Leather Riveting.
Chicago, Pomeroy....per doz. $9 00
Excelsior ..... " 2 00
Handy ..... " 2 00
Little Giant..... " 3 00
Pony, Pomeroy..... " 7 20
Washing.
Boss 1 2 5
Per doz.....$55.20 61.80 68.40
Winner..... per doz. 54 00
Keystone ..... " 54 00
Round Wayne..... " 26 50
U. S. Steel..... " 60 00
Advance, f.o.b. Chic'go " 24 50

MAIL BOXES.

See Boxes.

MALLETS.

Carpenters'.
Fibre Head, Small ...per doz. $5 00
" " Medium.. " 5 75
" " Large... " 6 75
Round Hickory..... " 1 75
" Lignumvitæ .. " 2 85
Square Hickory..... " 1 75
" Lignumvitæ.. " 3 40
Tinners'.
Applewood ..... " 1 70
Hickory..... " 75@1 15
Hickory Sheet Iron.. " 1 30

MATS.

Door.
National Rigid.....50, 10&5¢
Queen Flexible.....50¢
Stove.
No. 2. .....per gross. $2.25
No. 1. ..... " 2.50
No. 1 Asbestos Toasters, or wire-covered Stove Mats, with handle.....per doz. .75
No. 2 Asbestos Toasters, with ring.....per doz. .5

MATTOCKS.

Warwood .....70¢
Extra .....60¢

MAULS.

Iron. lbs.	10	13	16	18	21
Per doz.	$3.00	3.60	4.50	5.00	5.75
Wood face, lbs.		10	12	14	
Per doz		$5.00	5.50	6.00	

Wood Choppers'.
Lake Super'r & Oregon Pat.. 80&5¢

MEASURES.

	½ pk.	1 pk.	bu
Galvanized. per dz.	$2.00	$2.75	$3.60
Japanned... "	1.50	2.20	2.90

METAL.

Babbitt.
Alm .....per lb. 7½c
Best..... " 13 c
Common, No. 4..... " 6½c
Copper Mixed ..... " 19 c
Tony ..... " 9½c
See Metals—In first column.

MICA.

First Quality.....25¢
Second Quality.....35¢

MILLS, COFFEE.

Enterprise .....25¢
Parker.....50¢
Arcade .....50¢

MITRE BOXES.

See boxes.

MOPS.

Erie.....per doz. $3 15
Handled Cotton.

Pounds.....	¾	1	1¼	2
Per dozen...	$2.00	2.35	2.65	3.25

MOWERS, LAWN.

Ball-Bearing.

Inches.....	14	16	18	20
Each	$6.25	6.75	7.25	8.00

Cheap Grades.

Inches.....	12	14	16	18
Each	$2.25	2.25	2.35	2.50

Clipper .....50, 10&10¢
Yale.

Inches.....	4	16	18	20
Each.....	$3.50	3.75	4.00	4.35

Philadelphia.
All Styles Except A & E 60, 10&10¢
Style A.....50&10¢
Style E, High Wheel..60,10,10&10¢
Drevels.....50¢
All Day.....Net Price

NAILS.

Cut Steel.....rates, $2 10
Horse Shoe.
Ausable .....55&5¢
Capewell .....15¢
Perfect .....55&5¢
Putnam .....20-5¢
Star .....30¢
Picture.
Brass Heads .....40&10¢
Judd's..... ....60&10¢
Brads.....85&10¢
Furniture .....60&10¢
Wire.
Small Lots.....$2 10
Carload " 2 05
Cement Coated..... 1 95

NAIL PULLERS.

See Pullers.

NAIL SETS.

See Sets.

NETTING, POULTRY.

Galvanized before Weav'g.80&10&5¢
" After Weaving...80&10¢
Cut Pieces.....65&5¢

NIPPERS.

End Cutting.
Stubb's Pattern. Ins. 5½ 6
Per dozen $4.00 $4.25
End and Diagonal Cutting.
Swedish Side.....75¢
Utica Drop Forge & Tool Co...60¢
Hoof.
Heller's .....40&10¢
V. & B.....55-5¢

NOZZLES.

Hose.
Genuine Gem.....per doz. $3 15
Magic..... " 3 15
Mystic..... " 2 85

NUTS, HOT PRESSED.

Square Blank.

In.	¼	5/16	⅜	7/16	½	⅝	¾
℔.	9c	7½c	6c	5½c	4½c	4½c	4½c

Square Tapped.

In.	¼	5/16	⅜	7/16	½	⅝	¾
℔.	12c	10c	7½c	6½c	6½c	5½c	5½c

For 5 lb. boxes add ½c per ℔. to above prices.

OILERS.

Chase Pattern
Brass and Copper.....50¢
Zinc .....60¢
Engineers'
Cannon.....55¢
Tin.....per doz. $2.00@$2.25
Machine.
Common .....per doz. $0 50
Copper Plated Steel.. " 85
Malleable Iron.....60, 10&5¢
Jappaned..... .....65@75c

OPENERS.

Box.

Inches.....	10	12	14
Flat ..per doz	$2.85	3.60	4.15
Round "	2.10	2.25	2.75

Can.
Delmonico.....per doz. $1 30
Never Slip..... " 0 65
Crate.
V. & B..... " 5 75

OUTFITS, COBBLING.

Home.....per doz. $11 50
Economy..... " 4 90
Fireside..... " 10 50

PADLOCKS.

Standard Wrought .....70, 10&5¢
Champion .....50¢
Eureka.....40, 10&5¢
Yale .....60&5¢

PAILS.

Cream.
14-qt., without Ga....per doz. $2 50
20-qt., " " .... " 3 00
20-qt., with Gauge.... " 3 50
Sap.
10-qt., Galvanized.....per doz. 1 60
12-qt., " ..... " 1 85
Stock

Galvd. qts.	14	16	18	20
Per doz.....	$3.50	3.75	4.50	5.00

Water.

Galvanized qts	10	12	14
Per doz	$1 50	1.70	1.95

Wood.
Cable, 2-Hoop..... .per doz. $1 70
" 3-Hoop..... " 1 90
Cedar, 3-Hoop..... " 2 85
Standard, 2-Hoop..... " 1 60
" 3-Hoop..... " 1 80

PANS.

Dripping.....60&5¢
Fry.
Common.....75&10¢
Acme.....70&10¢
Roasting.
Paxton.

Nos.....	1	2	3	4
Per doz..	$4 75	$5.75	$6.50	$7.50
Neverburn..	4.00	4.50	5.50	6.50

Savory No. 200 .....per doz 8.50

PAPER.

Building.
Plain .....per 100 lbs. $1 10
Tarred..... " 1 20
Tarred Felt..... " 1 65
No. 20, Red Rosin .....pr roll 40
No. 30, Red Rosin ..... " 55
Sand and Emery.
Challenge.....50&10¢
B. & A.....50¢
Wrapping
Drab Floor.....per ℔. 2½c
Rag..... " 2½c

PARERS.

Apple.
Bay State.....per doz. $13 00
Turntable ..... " 6 00
White Mountain .... " 4 75
Reading ..... " 6 50

Potato.
Goodsell's Saratoga 10½ in. doz. 6 50
" " 5 in.. " 5 50

PICKS.

Adze Eye Ore .....65&5%
Drifting and Poll Picks.....70%
Extra Railroad .....70&5%
Surface.....65&5%

PINCERS.

Carpenters', cast steel.

In.	6	8	10	12
Per doz.	$1 80	$2 40	$2 80	$3 50

Blacksmith's 45%
Hel.er's 40%

PINS.

Clothes.
Common.....per gro. $0 14
Hoyt's..... " 31
U. S..... " 70

Picket.
Fluted 15 in.....per doz. $0 70
" 21 in..... " 1 60
Spiral ..... " 1 90

PIPE.

Conductor.
Territory.
Eastern.....70&10%
Central.....70&2½%
Southern.....65&10%
Western.....65&10%
Southwestern.....60&12½%

Lead.
Full coils.....per lb. 7½c
Cut " ..... " 7¾c

Stove.

Acme—In.	5	6	7
Smooth, per jt..	8¾c	9¾c	10¾c
Planished " ..	32 c	33 c	43c
Peerless—Smooth.	7¾c	8 c	9¾c
Polished	14½c	15½c	18c
Plan'hed	28 c	31 c	35½c

Made-up—In.	5	6	7
Smooth	7½c	8c	9½c

7 to 6 in. Smooth Tapers, pr jt..13c
6 in. Smooth T's..... " ..27c
7 to 6 in. Planished Tapers.....45c

Yale Patent Lock Pipe—Stove.

	5"	5½&6"	7"	7 to 6"
	—Cents—			
Battle Ax Blue Smooth Steel.	6	6½	7½	8
Double Lock Peerless Blue Smooth Steel.	6¾	7¼	8¼	8¾
Can't Slip Blue Smooth Steel.	6¾	7¼	8¼	8¾
Duplex Polish'd Blue Smooth Steel.....	8¾	9½	10½	10¾
Yale Russia Fin	15¾	16½	17½	17¾
Plan'h'd Duplex	29½	30½	37	38
Galvano, Galvanized Iron..	15	16	17	17½

If wanted made up, add per joint for grooved, 1c; riveted, 1½c. Crating made-up pipe extra.

Wrought Iron Gas Pipe
⅛@⅜-in., black.....discount, 60%
⅜@½-in. ..... " 60,10&5%
¾-in. to 6-in.. black... " 70%
7 " 12 " .. " 62½%
⅛@⅜ galvanized " 42%
⅜@½ " " 50%
¾ " 6 " " 57½%
7 " 12 " " 45%

PLANES.

Sargent Iron Bench.....60&10%
Stanley Iron Bench.....25&10%

PLANTERS.

Corn.
Monitor.....per doz..$7 75
Triumph..... " .. 6 00
Segment..... " .. 9 00

Potato.
Acme.....per doz..$6 25
Challenge..... " ..11 00
Pingree..... " .. 2 25
Eureka ..... " .. 6 25

PLATES, TIN.

See Metals in Column 1.

PLIERS.

Button's—In.	4½	6	8	10
Per doz.....	$2.40	$2.80	$3.70	$4.60

Button's Pattern.

In.	4½	6	8	10
Per doz.....	$2.00	$2.40	$3.00	$4.00

Cutting.
Bernard's.....40%
Lodi.....60&10&5%

End and Diagonal Cutting.
Swedish Side 70%
Utica Drop Forge & Tool Co....50%

Fencing.
Farmers' Choice....per doz ..$8 00
Russell's..... " .. 8 25

Flat and Round Nose.
Bernard's.....40%
German 65%
Lodi.....55%
Paragon.....50&10%

Gas—In.	6	8	10	12
Per doz...	$2.35	$3.00	$4.00	$5.00

Tinner's.
Hollow.....40%
Solid..... each..5½c

PLUMBS AND LEVELS.

Common.....75%@75&10%
Cook's.....40%
Davis' Iron.....25%
Davis' Inclinometer.....15%

Stanley's.

Nos.	00	0	2	3
Per doz..	$4.50	$5.00	$7.35	$8.40
Nos.	30	25	50	35
Per doz.	$12.00	$17.00	$17.00	$12.00

POINTS.

Drive Well Points.....75&10%

POKERS—STOVE.

Wr't Steel, str't or bent, pr doz.$0.55
Wr't Steel, wood hand'ls " " .80
Nickel pl'td, coil hdl's.. " " .65

POKES—ANIMAL.

Brown's, wr't steel, per doz. $5.00@6.00

POLISH.

Metal.
Pride of the Bar.....$1.60
Putz Cream.

Pts.	1-6	½	¾
Per doz.....	$0.80	$1.10	$1.65

Pts.	1	2	4	8
Per doz	$2 75	$4.50	$7.50	$12.50

White Silk half pints, per doz.$2.00
White Silk, 6 oz. cans, per doz. 1.00
Wondershine

Pts.	1-6	½	1	2
Per doz.....	$0.70	$1.35	$2.25	$3.00

George William Hoffman.
U. S. Metal Polish Paste, 3 oz. boxes, per doz., 50c; pr. gro ..$4.55
½-lb. boxes, per doz..... 1.20
1-lb. boxes, per doz 2.25
U. S. Liquid, 8 oz. cans, per doz., $1 25; per gro.....12.00
Barkeepers' Friend Metal Polish, per doz., $1.75; per gro..18.00

Shoe.
M. D. C.....per doz. 36c@50c
F. C. O..... " 40c
T. M..... " 55c@$1.75
Imperial.....per gr.....$5.00

Stove.
Black Eagle, 1 lb cans. pr gr..$15.00
Black Silk—
5 lb. pail.....$0 70
Paste, 5 oz. cans....per doz. 75
Paste, ½ lb. cans.... " 1 00
Liquid, ½ pint cans..per doz $1 00
Liquid, 6 oz. cans... " 75
Steel Range Gloss.... " 1 75
Blackene, 1 lb cans....pr gro. 13 00
Black Jack, ¾ lb cans.. " 9 25
Dixon's Carb. of Iron.. " 5 75
Nickel Plate..... " 4 50

POPPERS, CORN.

Round or Square, 1 qt. per dz, ..$ 95
Square, 1½ qt..... " 1 10
Square, 2 qt..... " 1 25
2 qt. Reversible..... " 1 60

POTS, FIRE.

Bernz.....each $3 85
Clayton & Lambert's, ea..$4 75@6 25
Gate City.....each 6 25
Gem.....ea..$6 75@8 50

POWDER.

See Ammunition.

PRESSES, FRUIT AND JELLY.

Enterprise Manufacturing Co....25%
Henis .....per doz. $2 00

PRIMERS.

See Ammunition.

PRUNERS.

Disston's Pole.....per doz. $6 50
Henry's Improved..... " 75&10%
Water's Improved..... " 80&5%

PULLERS.

Cork.
Daisy.....each $3 10
Phoenix..... " 1 40
Quick and Easy..... " 2 70

Nail.
Giant.....per doz..$10 50
Blackhawk..... " .. 6 50
Morrill's ..... " .. 10 50

Tack—Giant ..... " .. 40

PULLEYS.

Awning—Jap'd.....60%
Clothes Line.....50&10%

Hay Fork.
Iron Wheel, 5 in.....per doz. $1 75
Wood Wheel, 6 in.... " 1 75
Wood Wheel, 6 in., pass knot..... .... " 2 15

Hot House—Jap'd .....50&10%
Screw..... " 60%
Side ..... " .....50&10%

Sash.
Clark's .....per doz $0 36
Common Sense, 2 in .. " 22
" Pattern. 2 in.. " 20
Empire..... " 20
Ideal..... " 20
Steel..... " 25

PUMPS

Pitcher Spout.

Nos.	1	2	3	4
Each	$.90	1.00	1.10	1.40

Spray.
Blizzard.....per doz. $14 50
Cyclone, tin..... " 3 40
" copper ..... " 6 75
Daisy..... " 9 00
Little Giant.....each 2 25

PUNCHES.

Conductors'.
No. 22.....per doz. $2 25
Machine.....per lb. 19
Saddlers'.
Common.....per doz. 60c@70c
Good..... " 72c@84c

PUTTY.

In Bladders.
Strictly pure.....per 100 lbs. 2 35

RAIL.

Barn Door.
Crescent T..... 4½c
Double Flange..... 2½c
Matchless, 1 in..... 3c
Matchless, 1½ in 3½c
Storm King..... 4c
World's Best 7c

Sliding Door.
Painted steel.....per ft. 4½c
Bronzed wrought iron... " 8½c

RAKES.

Coal or Wood.....per doz. $5.20

Garden.
Steel.....75&10%
Steel, bow.....75&7½%
Malleable Iron, heavy.....70&10%

Hay.
Wood.....$1.50@$3 00

Lawn—Wood.
XXX .....per doz. 3 00
Automatic ..... " 6 00
Hustler ..... " 3 50
Jumbo, 36 teeth..... " 6 00

RASPS—See Files.

RAZORS.

Bo-ras-ic 50%
Red Devil.....50%
Tree Brand.....50%

REGISTERS.

List December 5, 1904.

Black and White Japanned.....70%
Nickel Plated.....70%
Electroplated, Brass, Bronze or Copper.....70%

RINGS

Bull.

Copper.....	2½ in	3 in.
Per doz.....	$1.10	$1.35
Rea's Impro'd Self Piercing copper, pr d'z.	1.85	
Steel per doz..	.85	.95
Nickel Plated	1.35	...

and Ringers—Hog.
Blair's Rings.....per doz. $0 45
Blair's Ringers..... " 60
Brown's Rings..... " 50
Brown's Ringers..... " 80
Champion Ringers... " 1 60
Hill's Ringers..... " 45
Hill's Ring, boxes..... " 40
Major Rings ..... " 60
Perfect Ringers..... " 80
Wolverine Rings..... " 1 30
Wolverine Ringers... " 60

Fruit Jar.
White.....per lb 30c

Key.
Split, round.....per doz. 17c
Split, square..... " 32c
Ball, Round..... " 32c

RIVETS.

and Burrs.
Copper Belt 40%
Coppered Iron 75%
Tinners' 70%
Hame.....per lb. $0 10
Slotted Clinch.....per doz. 40c@45c
Tubular.
Nos. 1 and 2 assorted sizes, doz. 45c

RIVET SETS.

See Sets.

ROPE.

Cotton.
¼, 5-16-in. Com. on reels..per lb. 11½c
¼, 5-16-in. Com. in coils .. " 12c
¼, 5-16 Imperial in coils . " 21c

Sisal
Rates.....10½c
Premier, rates .....per lb. 8½c

Pure Manila.
Rates..... " 13½c
Premier, rates .... " 12½c

RULES.

Boxwood.....70%
Ivory .....45&5%

SASH WEIGHTS.

See Weights.

SAWS.

Back.
Atkins'.....40%
Disston's .....30&5%
Jackson's.....30&5%

Butchers'.
Atkins' Nos. 1, 2, 3, 5, 7..... ..40%
Atkins' Nos. 77, 78.....60%
Atkins' No. 79.....50&5%
Disston's.....40&5%

Circular.
Atkins'.....50%
Disston's.....50%
Hiles'.....50&10%

Compass.
Atkins' Nos. 2 & 3 .....40%
Atkins' Nos. 4 & 5.....40&10%
Common.....per doz. $1.35@$1.60
Disston's.....25&7½%

Cross-Cut.
Atkins'.....35&40%
Disston's..... 40&10% &50%

Dehorning.
Atkins'.....per doz. $5 50
Disston's..... " 5 75

Hack.
Atkins'.....40%
Disston's.....25%
Keystone.....30%

Hand and Rip.
Atkins'.....40%
Brown's .....30&7½%
Disston's No. 7.....35&5%
Disston's Nos. 8, D8, 12, 76, 112, D100, and 120.....30&5%
Keystone.....35&5%
Enterprise, hand.....per doz. $5 00
Our Saw, hand..... " 4 00
Our Saw, rip..... " 4 50

Keyhole—Disston's.....30&5%
Atkins' No. 5.....40&10%
Atkins' No. 6.....40%

Kitchen.
Atkins' .....50&10%
Sterling.....25%
One Man 50%

Panel.
Atkins'.....40&10%
Brown's.....30&7½%
Disston's No. 7.....35&5%
Disston's No. D100.....30&5%

Pruning.
Atkins' Nos. 1, 2 & 3.....35%
Atkins' Nos. 5, 6 & 7.....40%
Brown's.....25&7½%
Disston's.....30&5%

Wood.
Atkins'.....40&10%
Common.....per doz. $4 50
Forest Clipper..... " 5 00
Happy Medium..... " 7 00
Perfection ..... " 8 00
Crescent..... " 5 00

SAW BUCKS—See Bucks.

SAW SETS—See Sets.

SAW TOOLS—See Tools.

SAW FRAMES.

Common, plain.....per doz. $1 25
" painted.... " 1 70

SCALES.

Counter.
Pelouze..... .....40&10%

Platform.
Osgood.....50%

SCOOPS.

Grain.
½ Bu. "Hercules,"..per doz. $13 75
1 " " " 15 00

SCRAPERS.

Box.
Stanley's Adjustable, per doz.$3 00
Triangular..... " 4 00

Cabinet.
Cast Steel..... " 60c@75c
Stanley's No. 80..... " $7 80

Road.

Cubic ft.	7	5	3
Without runners, ea.	$4.00	3.75	3.50
With runners.... "	4.25	4.00	3.75

SCREWS.

Bench.

Iron, in,.....	1	1½	1¾
	$3.25	$3.75	$4.50

Wood, white maple..per doz. $3 50
Hand—Wood.....30%
Hand Rail.....80&10%
Jack .....70&10&10%
Lag or Coach—all sizes, gimlet pointed.....75&5%
Saw—Centennial.

Nos.	1	2	3	4	5	6
Per doz.	18c	20c	26c	30c	23c	25c

Wood.
F. H. Bright.....87½&10&10%
R. H. Blued.....85&10&5%
F. H. Jap'd.....82½&10%
F. H. Brass.....85&10&5%
R. H. Brass.....80&10&5%
R. H. Nickel Plated.....80%

SCYTHES.

Clipper, grain.....per doz. $9 50
Clipper, grass..... " 7 75
Vulcan..... " 7 25
Honest Dutchman..... " 7 00
Challenge ..... " 8 00

SHAVING SETS.
Smith & Hemenway.....60%

SETS.
Nail.
Round, comm.on.....per doz. $0 33
Square, " ..... " 42
Octagon " ..... " 33
Square, Triumph.... " 90
Cup Point, knurled, pr. doz. 90c@$1.00
Rivet.
Farmers'.....per doz. $1 20
Tinners'.....50&10%
Saw.
Aiken's Pattern.....per doz. $3 50
Common Lever..... " 1 20
Disston's Monarch... " 6 50
" X Cut..... " 12 00
German..... " 1 05
Morrill's Old Style... " 5 00
" Pattern.... " 3 75
Leach's..... " 4 80
Nash's Hand..... " 3 15
" X Cut..... " 4 20
Stillman's Lever..... " 1 30
" X Cut..... " 2 50

SHARPENERS, SKATE.
Diamond.....per doz. $1 60
Smith & Hemenway.....20%

SHAVES, SPOKE.
Iron.....per doz. $1.35@$2.75
Wood..... " 2.75@ 4.75
Bailey's.....50&5%
Goodell's.....15%
Stanley's Universal.....30&5%

SHEARS.
Pruning.
Buckeye, No. 1.....per doz. $5 75
" No. 2..... " 7 40
California Pat. 9 in.. " 3 20
" " 10 in.. " 4 00
Draw Cut, No. 2..... " 13 75
" " No. 4..... " 16 50
Henry's Pat. 0 01 14 012
Per doz.....$1.40 $2.10 $2.90 $2.80
Star.....per doz. $4.00
Sheep—No. BBA.
Inches..... 6 6½ 7
Reg. Grip..... $11.25 $11.50 $12.00
Nar. Grip, doz. 11.00 11.25 12.25
Tinners'—See Snips.

SHEAVES, SLIDING DOOR.
Common.
Inches..... 3 4 5
Per set..... $0.34 $0.42 $0.70
Hatfield's.
Per set..... .75 1.00 1.60

SHELLS—See Ammunition.

SHELLERS, CORN.
Union..... per doz. $6.75

SHIELDS.
Expansion Bolt Shields.....50&10%

SHOES.
Conductor.....60&10%

SHOE POLISH—See Polish.

SHOT—See Ammunition.

SHOVELS AND SPADES.
Coal.
No. 2 Woodford .....per doz. $5 50
No 182. ..... " 6 00
Ames' new list.....Discount 12½%
Per Doz.
Neverbreak, hollow bck, blk. $15 75
National.... " " " 14 75
Buckeye .... " " " 10 00
Mohawk.... " " " 9 00
Drain.
Iwan's Perfection.....50%
Railroad, Etc.
Black Diamond .....per doz $10 50
Crescent..... " 5 75
Keystone..... " 8 75
Star..... " 4 75
Vaterland..... " 9 50
Hollow Back..... " 4 75
Ames' new list.....Discount 12½%
Snow.
Per doz.....$1.65@$9.00
Alaska Steel.
D Handle.....per doz. $3 50
Long Handle..... " 3 00

SINKS.
Cast Iron.
Painted..... 60%
Enameled, White.....65%
Wrought Steel.
Painted, new list.....40-10&5%

SLEDGES—See Hammers.

SNAPS, HARNESS.
Champion.....33⅓%
German Pattern.....30&5%
Judd's Pattern.....50%

SNATHS.
Double Ring, Bush.....per doz. $5 50
Patent Loop " ..... " 5 75
" " Grass..... " 5 25

SNIPS, TINNERS'.
Heinisch's..... 40&5%
National.....40&10%

SOLDER—See Metals.

SPRINGS, DOOR.
Perfect.
Nos..... 1 2 3 4
Per doz.... 30c 35c 40c 45c
Reliance.
Per doz.....light $1.25; heavy $2.50
Star.
Per doz..... light 90c; heavy $1.35
Torrey's.....per doz. $1.35
Warner's No..... 11 13
Per doz..... 75c $1.35

SQUARES.
Steel and Iron.....70&10%
(Add for Bluing, $2.50 per doz., net)
Mitre.
Stanley's No. 12.....60%
Try.
Stanley's No. 20, new list...45&10%
" No. 12 and 14.....55%
Try and Bevel.
Stanley's..... ..55&5%
Try and Miter.
Fox's.....per doz. $5.75
Winterbottom s.....70%

SQUEEZERS, LEMON.
Common Wood.....per doz. $0 70
Porcelain Lined, Wood. " 1 25
Boss, malleable iron.... " 75
Iron Frame, p'rel'n bowl " 2 25
" glass bowl... " 2 50
Little Giant, tin'd iron. " 4 00
Drum, japanned..... " 3 60
Drum, nickel plated .... " 4 50

STAPLES.
Blind.
Barbed.....per ℔ 9¼@9½c
Butter Tub..... " 8@8½
Fence—less than carload.
Polished.....per 100 ℔ $2 30
Galvanized..... " 2 60
Netting.
Galvanized..... ...per 100 ℔ 4 00
Wrought.
Wrought Staples, Hasps and Staples, Hasps, Hooks and Staples, and Hooks and Staples.....85&10%
Extra heavy..... .....85%

STEELYARD.
Discount 25%

STONES.
Axe.
Hindostan.....per ℔ 5½@7c
More Grit..... " 9½c
Washita ..... " 17 c
Emery.....60%@60&5%
Oil—Mounted.
Arkansas Hard.....per doz. $23 00
Arkansas Soft..... " 15 50
Hindostan .....per ℔ 6½@6¾
Oil—Unmounted.
Arkansas Hard.....per ℔ $2 05
Arkansas Soft..... " 1 10
Lily White..... " 45
Queer Creek..... " 15
Ouachita..... " 38
Washita ..... " 26
Sythe.
Black Diamond.....per gro. $8 00
Crescent..... " 4 25
Gem Corundum..... " 7 50
Green Mountain..... " 4 50
La Moille ..... " 7 00
Quinnebog..... " 5 00
Red End..... " 3 75

STOPS, BENCH.
Hotchkiss'.....per doz. $3 50
Stearns'..... " 4 75

STOPPERS, FLUE.
Common.....per doz. $0 40
Crown ..... " 45
Gem, flat, painted..... " 85
Gem, cor'd, decorated.. " 70
Kirch's..... " 90
Perfect..... " 70@85
Skinner's Common Sense " 80

STOVE PIPE—See Pipe.

STOVE BOARDS—See Boards.

STOVE POLISH—See Polish.

STRAPS.
Scoop.....per doz. prs. $1 85
Skate..... " " 60@70c

STRETCHERS.
Carpet.
Bullard's.....per doz. $3 90
Excelsior..... " 5 25
Malleable Iron..... " 70
Perfection..... " 6 30
King..... " 4 50
Wire.
N. S. Elwood's..... " 6 00
O. S. Elwood's..... " 6 00
Little Giant..... " 5 75
Safety ..... " 10 00
Star Lever..... " 6 25
Star Tackle Block.... 9 50
Warner's..... 6 25

SWIVELS.
Malleable Iron.....per ℔ 6½c
Wrought Steel.....per gro. $4 50

TACKS.
American Cut.....90&5%
American Wire.....85&25&10%
Bill Posters Cut.....90&30%
Blued Carpet.....90&10%
Tinned Carpet.....90&10%
Gimp..... 90&10%
Upholsters' Cut ..... 90&20%
Upholsters Wire.....90&10%
Double Pointed.....90&20%
Copper.....per ℔ 32c
Canvas Nails.....75&5%
Clout Nails .....75&5%
Hungarian Nails.....80&5%

TAPES, MEASURING.
Asses' Skin.....35%
Bend Leather.....15%
Patent Leather.....15%
Lufkin's Steel.....25%
Lufkin's Metallic.....25%

TEE BEVELS—See Bevels.

THERMOMETERS.
Tin Case.....per doz. 80c@$1 25
Wood Back..... " $2.00@12 00
Glass..... " 12 00

TIES.
Bale.
Single Loop.....80&10%
All other kinds.....70%
Cow—See "Chains."

TOOLS, SAW.
Atkins' Dexter.....per doz. $4 50
Atkins' Excelsior..... " 6 50
Disston's Universal.....40%
Minature.
Smith & Hemenway.....25%

TRAPS.
Fly.
Balloon.....per doz. $0 90
Harper's..... " 1 00
Game.
Newhouse.....40&10%
New Victor.....70%
Mole.
Reddick's.....per doz. $6 25
Mouse and Rat.
Wood Choker...per doz. holes $0 11
Tin Choker..... " " 10
Delusion.....per doz. 1 00
Marty Rat..... " 6 00
Marty Rat Imitation.. " 3 50
Marty Mouse..... " 3 00
Marty Mouse Imitation " 2 25

TROWELS.
Brick.
Standard.....40%
Brade's.....15&5%
Disston's.....30%
Rose's.....25%
Plasterers.
Standard.....40%
Disston's.....25%
W. & McP.....25%

TRUCKS.
Bag.....each $2 00
Handy..... " 1 70
Warehouse .....60&5%

No	1	2	3
Half Ironed	$3.00	$3.85	$5.50
Full Ironed	3.45	4.50	6.45

TUBS, WASH.

Standard. Nos	3	2	1	Ex. large
Per doz	$5.00	$6.00	$7.00	$ 9.50
Dowell. Per doz	5.35	6.35	7.00	9.50
Cedar. Per doz	6.10	7.10	7.90	10 80
Indurated. Per doz	8.55	9.45	10.80	13.50
Galvanized. No	1	2	3	
Per doz	$4.75	$5.25	$5.85	

TWINE.
Per ℔
3-ply Cotton Wrapping.....19c
4 " " " 19c
4 " " Extra Wrapping.....22c
4 " " " Hvy. Wrapping..20c
4 " " Wrapping on tubes...22c
3 " " " cones...20c
4 " " " " ...20c
India Hemp, ¼-lb. balls.....17c
" " ½-lb. " 16c
" " ¾-lb. " .....doz. 63c
2-ply " ½-lb. " 11c
3-ply " ½-lb. " 10c
Jute Wrapping, ½-lb. balls.....11c
Jute Wool, 1-℔. balls.....6½c
Seine.

Nos	9	12	15+
Soft.....per ℔	26½	26	25
Med..... "	26½	26	25
Hard..... "	27	26½	25

Staging, ½-lb. ball, size 21.....26½c
" " " " 24.....26c
" " " " 27.....26c
Bagging " " 23c
3-ply "B" in hanks.....18c
4 " "B" " 18c
3 " "A" " 27c
3 " Silver Finish, in hanks....37c
Fodder or Lath.
130-strand 6½c
200 strand.....7½c

VISES.
Bonney's.....35%
Cheney's 20%
Parker's Oval Slide.....50, 10&2½%
Sargent's Oval Slide.

In.	2½	3	3½	4½
Ea.	$1 00	$1 25	$1 65	$2 00

Parker's Parallel.....18&20%
Parker's Victor.....15%
Parker's Combination.....75%
Solid Box.....75%
Adam's Mechanics'.....each 2 50
Williamson Universal 60%

WARE.
Stove Hollow Ware.
Plain or Unground 60%
Ground Ware.....50&10%
Enameled Ware.....50%
Country Hollow Ware, per 100 lbs. $2.75
White Enameled Ware.
Maslin Kettles.....60&10&10%
Covered Ware, Tinned and Turn'd. 40%
Enameled 50%
Glue Pots, Tinned.....30%
Enameled.....35%
Enameled.
Cherry Blossom and Chrysolite. 50%

WASH BOARDS—See Boards.

WASHERS.
Standard O. G. cast iron...per ℔. 2½c
Wrought iron in bulk per ℔.:

In.	½	⅝	¾	⅞	1
	7½c	5½c	4c	3½c	3½c	3½c	3½c

Wrought steel in 5 ℔. boxes, per ℔.

In.	½	⅝	¾	⅞	1
	8½c	6½c	5c	4½c	4½c	4½c	4½c

WASHING MACHINES—See Machines.

WEDGES.
Ax.....per doz....30
Galling .....per ℔ 10¾
Saw ..... " 8¼

WEANERS.
Calf.
Fuller's, per doz.....$2 00 to $2 50
Tyler's Safety, per doz 1 85 to 2 40
Carroll's, per doz ..... 3 00 to 3 75
Standard, per doz..... 3 00
Hoosier, per doz..... 3 50 to 4 60

WEIGHTS.
Hitching .....per ℔ 2½c
Sash—F.O.B. Chicago...pr ton $24 00

WHEEL BARROWS.
Common Railroad....per doz..$15 00
Heavy " .... " .. 20 00
Panama Steel Tray " .. 35 00
Klondike " " .. 23 50
No. C4 Tubular " " .. 45 00
No. C5 " " " .. 48 75

WHEELS.
Corundum .....70&10&5%
Emery .....75&5%
Well In. 8 10 12 14
Per doz.....$2.10 $2.50 $3.15 $5.00

WIRE.

	Painted.	Galv'd.
Barbed Carloads..per 100 lbs..	$2.20	$2.50
Less than car " ..	2.25	2.55

Brass.
In coils.....20%
In 1 ℔ spools, new list.....50&10%
Broom—Tinned.....60&10&10&10%
Cable—Same price as Barbed Wire.
Copper.
In coils.....20&10%33⅓%
In ½ ℔ spools, new list 50&10%
Fence—Smooth.
Nos. 6 to 9, An'eal'd, pr 100 lbs. $2.10
Nos. 6 to 9, Galv'l'd... " 2.40
Hair—New list.....50&10%
Market.
Bright, full bdles.....70&10%
Bright, broken bdles 70%
Coppered, full bdles 70%
Coppered, broken bdles.....65&10%
Tinned, full bdles.....70&5%
Tinned, broken bdles.....65&10%
Picture—In coils.....80%@80&10%
In 5 ℔. spools .....per ℔..26c
Plain—Small lots.....per ℔..26c
Car lots $2.10
Small spools 5c per hundred higher.

WRENCHES.
Acme Standard.....60%
Alligator .....75&10%
Always Ready.....50&10%
Bemis & Call No. 2 Improved Pipe Wrenches 80%
Coe's Standard.....40&10&5%
Agricultural.....75&10%
Ellis Adjustable.....25%
Malleable "S".....per ℔. 05½c
Malleable..... " 05½c
Stillson Pipe 70%
Trimo " .....65&10%

WRINGERS.
No. 22, Guarantee....per doz.$32 00
No. 110, Guarantee.... " 32 00
No. 110, Brighton..... " 22 00
No. 110, Bicycle ..... " 31 00
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No. 350, Universal.. " 27 00
No. 300, Novelty.... " 27 00
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Peters Cartridge Co., Cincinnati, O
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Bolts

Columbus Bolt Wks., Columbus, O
Star Expansion Bolt Co., New York, N.Y

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James & Meyer, Lawrenceburg, Ind.

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Peoria Can Co., Peoria, Ill
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Wiebush & Hilger, New York City

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Peters Cartridge Co., Cincinnat O

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Clothes Pins

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Pullman Mfg. Co., Rochester, N.Y

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Stoltz, F. D., Chicago, Ill

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Century Specialty Co., Rochester, N.Y

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La Crosse Steel Roof. Co., La Crosse, Wis
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Bertsch & Co., Cambridge City, Ind
Niagara Machine & Tool Wks., Buffalo, N.Y

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Cooney & Geiger, Indianapolis, Ind
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Sayre Stamping Co., Sayre, Pa
Howes Co., S. M., Boston, Mass

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Griffin Mfg. Co., Erie, Pa

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St. Paul Roofing, Cornice & Ornament Co., St. Paul, Minn
Waitacre Mfg Co., J. E., Rockford, Ill

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Dieckmann, F., Cincinnati,
Wheeling Corrugating Co., Wheeling, W. Va

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Star Enameling and Stamping Co., Pittsburgh, Pa

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Volkammer & Co., Pittsburg

Engineers & Contractors

Volkammer & Co., Pittsburg

Fencing—Wire

Cyclone Woven Wire Fencing Co. Waukegan, Ill
Denning Wire & Fence Co., Cedar Rapids, Ia
Pittsburgh Steel Co., Pittsburgh, Pa

Fences—Iron

Stewart Iron Works Co., Cincinnati, O

Files

Barnett, G. & H. Co., Philadelphia, Pa
Carver File Wks., Philadelphia, Pa
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Forks, Hoes, Etc.

American Fork & Hoe Co., Cleveland, O

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Bertsch & Co., Cambridge City, Ind
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Haynes-Langenberg Mfg Co., St. Louis
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Hess, Snyder Co., Massilon, O
Lennox Furnace Co., Marshalltown, Ia
Magee Furnace Co., Chicago
Mannen & Esterly Co., Cleveland, O
Meyer Furnace Co., Peoria, Ill
Monroe Fdy. & Furn. Co., Monroe, Mich
Mueller, L. J. Furn. Co., Milwaukee, Wis
Pittsburgh Stove & Range Co., Pittsburgh, Pa
Schwab & Sons Co., Milwaukee, Wis
Stanton Heater Co., Martin's Ferry, O
Thatcher Furnace Co., New York, N.Y
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Michigan Safety Furnace Pipe Co. Detroit, Mich
Meyer F. Bros. & Co., Peoria, Ill
Mueller, L. J. Furn. Co., Milwaukee, Wis

General Merchandise

Butler Bros., Chicago, Ill

Hand Screws

Grand Rapids Hand Screw Co., Grand Rapids, Mich

Hand Punching Machine

American Lock Nut Co., Oregon, Ill

Hangers—Door

Richards Mfg. Co., Aurora, Ill
Safety Door Hanger Co., Ashland, O

Hangers—Garment

Pullman Mfg. Co., Rochester, N.Y

Hardware Jobbers

Butler Bros., Chicago
Clark, Quien & Morse, Peoria
Paxton & Gallagher Co., Omaha

Hardware Specialties

Bishop Hdw. Co., Dowagiac, Mich.
Carver File Co., Philadelphia, Pa
Kees Mfg. Co., Beatrice, Neb

Heaters—Steam and Hot Water

Haynes-Langenberg Mfg. Co., St. Louis
Magee Furnace Co., Chicago
Monroe Fdy. & Furn. Co., Monroe, Mich
Mueller, L. J. Furn. Co., Milwaukee, Wis
Stanton Heater Co., Martin's Ferry, O

Heater Combination

Stolz, F. D., Chicago, Ill

Hinges
Griffin Mfg. Co., Erie, Pa
Kees Mfg. Co., Beatrice, Neb
Lawson Mfg. Co., Chicago, Ill

Hollow Ware
Avery Stamping Co., Cleveland, O
Sperry, D. R. & Co., Batavia, Ill

Ice Cream Freezers
North Bros. Mfg Co., Philadelphia. Pa
Richmond Cedar Wks., Richmond, Va

Industrial Plants
Vollkommer & Co., Pittsburgh, Pa

Iron Fence
Stewart Iron Works, Cincinnati, O

Kitchen Utensils
Avery Stamping Co., Cleveland, O
Lalance & Grosjean Mfg. Co., Chicago

Ladders
Calander, John, St. Paul. Minn

Lanterns
Berger Mfg. Co., Canton, O
Pritchard-Strong Co., Rochester, N. Y

Lawn Mowers
Briscoe Mfg. Co., Detroit, Mich
Clipper Lawn Mower, Dixon, Ill

Levels
Baker-McMillen Co., Akron, O
Stanley Rule & Level Co., New Britain, Ct

Lighting Systems
Ideal Epworth Acetylene Co., Johnstown, Pa.

Lightning Rods
Maher & Sons, Preston, Ia
Security Lightning Rod Co., Burlington. Wis

Mail Boxes
Blick-Williams Co., Indianapolis, Ind
Heise & Brauer, Chicago, Ill
Signal Mail Box Co., Joliet. Ill
Smith Bros. Mfg. Co., Chicago. Ill
Peck, C. A. Hdw. Co., Berlin, Wis

Metal—Perforated
Harrington & King Perforating Co., Chicago, Ill

Metal Polish
Hoffman, Geo. W., Indianapolis, Ind

Metal Shingles
Burton, W. J. Co., Detroit, Mich
Edwards Mfg. Co., Cincinnati, O
Cortright Metal Roofing Co., Philadelphia
Nat'l Sheet Metal Roof. Co., Jersey City

Miters
Whitacre Mfg. Co., J. E., Rockford. Ill

Mop Wringers
Dana Mfg. Co., Chicago
Eagle Cooperage Wks., Circleville. O

Nails and Tacks—Copper
Hungerford & Co., U. T., New York
Plume & Atwood Mfg. Co., Chicago, Ill

Nickel Trimmings
Troy Nickel Works, Troy. N.Y

Nuts
American Lock Nut Co., Oregon, Ill
Columbus Bolt Works, Columbus. O
Garland Nut & Rivet Co., Pittsburgh, Pa

Oil Cans
Cooney & Geiger. Indianapolis, Ind

Oars
Strand & Youngquist, Minneapolis

Paints
Dixon, Jos. Crucible Co., Jersey City, N. J
Enterprise Paint Mfg. Co., Chicago
Heath & Milligan, Chicago, Ill

Pencils
Dixon, Jos. Crucible Co., Jersey City, N.J

Perforated Metal
Harrington & King Perforating Co., Chicago. Ill

Photograph Clips
U. S. Clothes Pin Co., Montpelier, Vt

Pistols
Stevens, J. Arms & Tool Co., Chicopee Falls, Mass

Planes
Stanley Rule & Level Co., New Britain, Ct

Pumps
Beckman Bros., Des Moines, Ia
Berger Mfg. Co., Canton, O
Moss-Snyder Co., Massillon, O

Punches
American Lock Nut Co., Oregon, Ill
Bertsch & Co., Cambridge City, Ind
Diener. Geo. W. Mfg. Co., Chicago
Globe Mch. & Stamp. Co., Cleveland, O
Niagara Mch. & Tool Wks., Buffalo, N.Y
Weiss, H. & Co., New York. N.Y

Radiators
Rochester Radiator Co., Rochester, N.Y

Ranges
Beckwith, P. D. Estate, Dowagiac, Mich
Culter & Proctor Stove Co., Peoria, Ill
Foster Stove Co., Ironton, O
Pittsburg Stove & Range Co., Pittsburg, Pa
Van, John, Range Co., Cincinnati. Ohio

Rasps
Disston, Henry & Sons., Philadelphia, Pa

Razors
Gillette Sales Co., Times Bldg., New York City
Kampfe Bros., New York, N. Y
Smith & Hemenway, Corp., Ltd. New York

Registers
Auer Register Co., New York
Ferro Steel Co., Cleveland, O
Henry & Scheible Co., Cleveland, O
Independent Steel Register Co., Cleveland, O
Mueller, L. J., Furn. Co., Milwaukee, Wis
Schwab & Sons Co., Milwaukee, Wis

Rifles
Stevens, J. Arms & Tool Co., Chicopee Falls, Mass

Rivets
Hungerford, U. T., Brass & Copper Co., New York, N. Y
Plume & Atwood Co., Chicago

Roasters—Poultry
Lisk Mfg. Co., Canandiagua, N. Y

Roofing
Johns-Manville, H. W. Roofing Co., New York, N. Y
Niles Corrugating Co., Niles, O

Roofing—Asphalt
Stowell Mfg. Co., Jersey City, N.J

Roofing—Iron and Steel
Berger Mfg. Co., Canton, O
Burton, W. J. Co., Detroit, Mich
Canton Art Metal Co., Canton, O
Edwards Mfg. Co., Cincinnati, O
Follansbee Bros. Co., Pittsburgh. Pa
Friedley & Voshardt, Chicago, Ill
Garry Iron & Steel Co., Cleveland, O
Kanneberg Roofing & Ceiling Co., Canton, O
La Crosse Steel Roof. Co., La Crosse, Wis
Nat'l Sheet Metal Roof. Co., Jersey City
Schoedinger, F. O., Columbus, O
St. Paul Roofing, Cornice & Ornament Co., St. Paul, Minn

Roofing Cement
Connors, Wm. Paint Mfg. Co., Troy, N.Y
Garry Iron & Steel Co., Cleveland, O

Roof Paint
Conners, Wm. Paint Mfg. Co. Troy, N.Y
Dixon, Jos. Crucible Co., Jersey City, N.J
Garry Iron & Steel Co., Cleveland, O

Rules
Lufkin Rule Co., Saginaw, Mich
Stanley Rule & Level Co., New Britain, Ct

Safety Razors
Gillette Sales Co., Times Bldg., New York City
Rampfe Bros., New York

Sanitary Pails
Weber-Kirch Co., Keokuk, Ia

Sash Balances
Pullman Mfg. Co., Rochester. N.Y

Sash Chain, Ribbon & Wire Cord
Pullman Mfg. Co., Rochester, N.Y

Saws and Saw Sets
Atkins. E. C. & Co., Indianapolis, Ind
Diamond Saw & Stamping Co., Buffalo. N. Y
Disston, Henry & Sons, Philadelphia, Pa
Goodell-Pratt, Greenfield, Mass

Scales
Beckman Bros., Des Moines, Ia

Screens—Perforated Metal
Harrington & King Perforating Co., Chicago, Ill

Screen Door Checks
Pullman Mfg. Co., Rochester, N. Y

Screens—Radiator
Harrington & King Perforating Co. Chicago, Ill

Screws
Columbus Bolt Works, Columbus, O

Screw Drivers
North Bros. Mfg. Co. Philadelphia, Pa

Scuttle Openers
Bickelhaupt, G., Skylight Works, New York, N. Y

Seamless Tubing—Brass & Copper
Hungerford, U. T. & Co., New York
Plume & Atwood Co., Chicago

Settees—Iron
Stewart Iron Works, Cincinnati, O

Shears—Sheet Metal
Bertsch & Co., Cambridge City, Ind
Niagara Mch. & Tool Wks., Buffalo, N.Y
Weiss, H. & Co., New York, N.Y

Sheet Metal Specialties
Friedley & Voshardt, Chicago, Ill

Sheets—Black and Galvanized
Berger Mfg. Co., Canton, O
Parkersburg Iron & Steel Co., Parkersburg, W. Va
Wheeling Corrugat'g Co., Wheeling, W. Va

Sheets—Planished
Ward-Dickey Steel Co., Indiana Harbor, Ind

Sheets—Steel
American Sheet & Tin Plate Co. Pittsburgh, Pa
Parkersburg Iron & Steel Co., Parkersburg, W. Va
Ward-Dickey Steel Co., Chicago, Ill

Shelving—Hardware
Heller & Co., Mont Clair, N. J

Shot Guns
Stevens Arms & Tool Co., Chicopee Falls, Mass

Shovels
Avery Stamping Co., Cleveland, O

Sifters
Stuber & Kuck. Peoria, Ill

Skylights
Edwards Mfg. Co., Cincinnati, O

Skylight Gearing
Bickelhaupt, G., Skylight Works, New York. N. Y
Weiss, H. & Co., New York, N.Y

Slate
Auld & Conger Co., Cleveland, O
Johnson, E. J. & Co., New York, N.Y

Soldering Furnaces
Burgess Soldering Furnace Co., Columbus, O
Clayton & Lambert Mfg. Co Detroit
Turner Brass Co., Chicago, Ill

Sporting Goods
Enterprise Mfg. Co., Akron, O

Squares, Machinists'
Disston, Henry & Sons, Philadelphia, Pa
Duby & Shinn, New York City, N.Y
Stanley Rule & Level Co., New Britain, Ct

Stampings—Sheet Metal
Avery Stamping Co., Cleveland, O

Steel Casing Rings
Taylor & Boggis Fdy. Co., Cleveland
Walworth Run Fdy. Co., Cleveland, O

Steel Roofing
Garry Iron & Steel Co., Cleveland, O
Niles Corrugating Co., Niles, O
Merchant & Evans Co., Philadelphia, Pa

Stoves and Ranges
Beckwith, P. D. Estate, Dowagiac. Mich
Culter & Proctor Stove Co., Peoria, Ill
Foster Stove Co., Ironton, O
Glazier Stove Co., Chelsea, Mich
Pittsburgh Stove & Range Co. Pittsburgh. Pa
Van, John, Steel Range Co., Cleveland, O

Stoves—Gas
Clark, Geo. M. Co., Chicago, Ill
Glazier Stove Co., Chelsea, Mich
Pittsburgh Stove & Range Co., Pittsburgh, Pa
Taylor & Boggis Fdy. Co., Cleveland, O

Stove Casters
Kramer Bros. Fdy. Co., Dayton, O

Stove Cement
Dixon, Jos. Crucible Co., Jersey City, N.J

Stove Clay
Bridgeport Crucible Co., Bridgeport. Ct

Stove Mats
Stuber & Kuck, Peoria, Ill

Stove Pipes
Edwards Mfg. Co., Cincinnati, O
Hemp & Co., St. Louis, Mo
Wheeling Corrugat'g Co., Wheeling, W. Va

Stove Patterns
Cope Pattern Wks., Detroit, Mich
Shaw & Keller, Cleveland, O
Quincy Pattern Co., Quincy, Ill
Vedder Pattern Works, Troy, N.Y
Weller Pattern Co., Quincy

Stove Pipe Thimbles
Stuber & Kuck, Peoria.

Stove Repairs
Brauer, A. G., St. Louis. Mo
Manufacturers' Stove Repair Co., Chicago

Stove Trimmings
Troy Nickel Works Troy, N.Y

Stove Trucks
Arcade Mfg. Co., Freeport, Ill

Stump Pullers
Monarch Grubber Co., Lone Tree, Iowa

Sugar Kettles
Sperry & Co., Batavia, Ill

Tapes
Lufkin Rule Co., Saginaw, Mich

Test Tube Holders
U. S. Clothes Pin Co., Montpelier, Vt

Thermometers—Oven
Evans Stamping & Plating Co., Taunton, Mass

Thermostats
Howard Thermo. Co., West Oswego, N. Y

Tin—Perforated
Harrington & King Perforating Co., Chicago, Ill

Tinners' Tools
Lufkin Rule Co., Saginaw, Mich

Tinplate
Canton Art Metal Co., Canton, O
Eller, J. H. & Co. Canton, O
Follansbee Bros. Co., Pittsburgh, Pa
Garry Iron & Steel Co., Cleveland, O
McClure Co., Philadelphia, Pa
Merchant & Evans Co., Philadelphia, Pa
Schoedinger, F. O., Columbus, O

Tinware
Lalance & Grosjean Mfg. Co., Chicago
Lisk Mfg. Co., Canandaigua, N. Y
Mosheik, P., Chicago
Roseland Can & Spec. Co., Rockford, Ill
Weber-Kirch Co., Keokuk, Ia

Tools, Etc.
Wiebush & Hilger, New York City

Tree Guards—Iron
Stewart Iron Works, Cincinnati, O

Trowels
Atkins & Co., Indianapolis, Ind
Avery Stamping Co., Cleveland, O
Disston, H. & Sons, Philadelphia, Pa
Griffin Mfg. Co., Erie, Pa

Tubing—Brass and Copper
Hungerford, A. T., Brass & Copper Co., New York

Tubs and Pails
Wheeling Corrugat'g Co., Wheeling, W. Va

Valve Regulators
Howard Thermo. Co., West Oswego, N. Y

Vases—Iron Reservoir
Stewart Iron Works, Cincinnati, O

Ventilators
Canton Mfg. Co., Canton,
Friedley & Voshardt, Chicago,
Globe Ventilator Co., Troy, N.Y
Merchant & Evans Co., Philadelphia, Pa
Powers Bros., Streator. Ill
Pullman Mfg. Co., Rochester, N. Y

Wagons
Sycamore Wagon Works., Sycamore, Ill

Wash Boilerf
Reed Mfg. Co., Newark. N. J

Washing Machines
Brammer, H. F. Mfg. Co., Davenport, I
Benbow-Brammer Mfg. Co., St. Louis, Mo
Paxton & Gallagher Co., Omaha, Neb
Richmond Cedar Wks., Richmond, Va
White Lily Washer Co., Davenport. Ia

Wire Goods
Denning Wire & Fence Co., Cedar Rapids, Ia
Pittsburgh Steel C Pittsburgh, Pa

Wants and Sales.

For yearly subscribers to THE AMERICAN ARTISAN will be inserted under this head advertisements of six lines WITHOUT CHARGE for employers wishing to secure employes, persons seeking situations, parties desiring to purchase a business, businesses for sale, partners wanted, to exchange, etc. Those who respond to these announcements will please mention that they read the advertisement in THE AMERICAN ARTISAN.

BUSINESS CHANCES.

PATENTS

HUBERT E. PECK, 623 F. St., N. W., Washington, D. C. Consulting Expert in Patent Causes. U. S. and Foreign Patents. Send for leaflet on "Rejected Patent Application."

For Sale—Hardware stock, business located in suburb of Chicago; population 25,000; stock, fixtures, horses and wagons will invoice about $22,000. Nice clean stock of general and builders' hardware, kitchen furnishings, bicycles, tinshop, steam fitting, etc. Address P. E. O., Room 801, Kedzie Bldg., Chicago, Ill. 27-1t

For Sale—Nice clean stock of hardware and implements in one of the best towns in northern Indiana; population 1,500. Stock will invoice $4,000; this is a snap for party who wants a good business. Address J. M. X., care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago, Ill. 27-4t

For Sale—A good clean stock of hardware, stoves, tinware, queensware and good implements; also tinshop in building. Located in a good farming community in eastern Iowa. Will sell or retain implement business. Good reason for selling. Address No. 1, care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago, Ill. ufn

For Sale—A clean and up-to-date stock of hardware, stoves and paint with finest of tinshop in connection on lower floor; also a complete stock of up-to-date furniture in connection with same; one of the finest of undertaking parlors with complete burial equipment of latest design on upper floor in a two-story brick building, size 31x100 ft., metal ceiling in lower rooms and undertaking department up stairs; located in the main part of town in Golden, Ill. Complete stock will invoice about $8,000; annual sales of 1904 and 1905 over $20,000; the building is of the most substantial with fire proof vault and office; the stock and building must go together. Address Franzen & Miller, Golden, Ill. ufn

For Sale—A good clean stock of hardware, stoves, tinware, queensware and good implements; also tinshop in building. Located in a good farming community in eastern Iowa. Will sell or retain implement business. Good reason for selling. Address No. 1, care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago, Ill. ufn

For Sale—Clean stock of hardware, stoves and paints in eastern Nebraska, doing nice profitable business; stock probably will invoice $3,500. Address E. L. J., care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 26-3t

For Sale—Stock of hardware, stoves and tinware; tinshop in connection, in good farming country in central Ohio; business has been established for 21 years. Annual sales from $8,000 to $10,000; can be increased. Stock and buildings about $3,500. A good place for wide-awake man; will give some time or part payment if wanted. Address A 25, care THE AMERICAN ARTISAN, 69 Dearborn St., Chicago.

For Sale—Right to manufacture in five states a patented sheet metal article of great merit, or will sell patent outright. Dissolution of partnership reason for selling. Address Xint, care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 26-4t

For Sale—A nice clean stock of hardware with tin shop in connection, doing a good business in southern Wisconsin county seat, within a rich farming country. Only two hardware stores in the city; stock of $4,200. This will bear your investigation. Address Lock Box 52, care THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. ufn

For Sale—We are closing out our general stock of hardware, including tinshop. Write at once for particulars. Address A 26, care THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 26-3t

For Sale—Clean stock of hardware located in one of the best towns in northeastern Iowa; population 2,000; stock will invoice about $4,000. We must sell on account of sickness. Address G., care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 26-3t

Wanted—Present address of E. C. Mayham, a contractor or carpenter, formerly from Superior, Wis. Will give one year's subscription for The American Artisan for the first one sending same. Address, Rix, care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. ufn

For Sale—One of the best equipped hardware stores in any of the small towns of N. W. Iowa. Established business, reasonable rent, good brick building, main room 32x70; rent reasonable; insurance; best location in town. Stock, fixtures and tools invoice about $3,800. No trade considered, but am not particular about all cash down. Address, R. W., care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 25-3t

For Sale—Hardware stock and building. This is a clean, up-to-date about five thousand dollar stock, counting tinner's tools, safe, etc. Building 22 ft. by 140 ft.; good living rooms above. Price of building, two thousand dollars. Located at Livermore, Humboldt county, Iowa, and doing a good business. Might sell half interest if party was a tinner or hardware man. This is a good farming country, nice town, good graded school, five churches, brick and tile factory, two railroads, about twenty business houses, two hotels, two lumber yards, three elevators, plenty of timber and a pretty place one-fourth mile from the Des Moines river. Honorable competition, and a good place to live, bring up your children and make money. Prices not all cut to pieces. Land trade not considered. Part time on building and lot if wanted. Will give a bargain if taken soon. Business established by me for twenty years. Rheumatism and poor health reason for selling. Write or call on J. W. Leighton, Livermore, Iowa. ufn

For Sale—Stock of hardware and farm implements in a country town doing a nice business. Tin shop in connection, clean stock and first-class fixtures. Cash deal only considered; reason for selling, poor health of one partner. Address A2, care THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. ufn

For Sale—Stock of hardware and two-story brick building, 22x80 feet, situated in town of 1,000 in East Central Wisconsin; good farming country, dairying, stock raising, potatoes, grain and sugar beets the principal industries; stock invoices about $4,000; if interested it will pay you to investigate. Address W. & J., care THE AMERICAN ARTISAN, Chicago, Ill. ufm

TINNERS' TOOLS.

For Sale—Set of tinners' tools; list furnished upon inquiry. Will sell at a bargain. Address A. N. Patriarche & Co., Battle Creek, Mich. ufn

For Sale—Cheap or exchange for others, lot of second-hand tinsmith's tools and machines in fair condition. For list and particulars address N. B. Case, Box 169, Havre de Grace, Md. ufn

Wanted—8 ft. brake; must be in first-class condition. If possible would like to exchange good 3 ft. brake. State price and condition in first letter. Address R. G. Clum & Son, Lamoni, Iowa. 26-3t

HELP WANTED.

Help Wanted—At once, a first-class tinner, one who understands furnace work and plumbing. Steady work, $2.50 per day. Give experience and references. Address Walter L. Gumm, Remington, Ind. 27-3t

Help Wanted—At once, a good steady, sober tinner and furnace man who can make estimates on and do all kinds of furnace and tin work, slate roofing and steel ceiling work; must be able to figure from plans; must give best of references; state wages in first letter. Address M. Reinhardt's Sons, Lincoln, Ill. 27-3t

Help Wanted—Tinner to take charge of shop, up-to-date on furnace work; also some knowledge of cornice work. Will pay $15.00 per week the year around to man that suits. Best home town in state; good schools. Address Ole Nelson, Mankato, Minn. 27-3t

Help Wanted—A good all around tinner, one that who can clerk in store when required. A good steady position for the right man. Address J. Meyrs, Bourbon, Ind. 27-3t

Help Wanted—A first-class all around tinner, German preferred; must be sober. Address C. W., Lock Box 193, Lake Mills, Wis. 27-3t

Help Wanted—Tinner to take charge of shop; married man preferred; temperate and good workman; one that can cut out and put up cornice preferred. Address Geo. A. Brush, 900 Congress Ave., Austin, Texas. 27-3t

Help Wanted—Good tinner and furnace man with some knowledge of plumbing. Wages $2.50 per day; work the year around; only man of good habits need apply. Address C. V. Mashek, Kewaunee, Wis. 27-3t

Help Wanted—Two first-class tinners for inside and outside work. Steady work the entire year to the right men. Address A-27, care THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 26-3t

Help Wanted—Five tinners and furnace men of practical experience; state wages desired and number of years' experience; steady work for the right man. Address Eau Claire Cornice and Heating Co., Eau Claire, Wis. 26-3t

Help Wanted—Tinner wanted for general jobbing shop; must be able to do gutter work and understand something of furnace work. Address Geier & Peppler, 700 Lincoln Ave., Chicago. 26-3t

Help Wanted—Good tinner for general work. Address T. B. Bennett & Co., Flanagan, Ill. 26-3t

Help Wanted—Good all around retail hardware man; must be temperate and a worker. Give age, salary wanted and references. Good salary and steady job to right man. No others need apply. Address R. H., care THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 26-3t

Wanted—Tinner; state experience and wages wanted; have good shop and good tools. Address, H. A. Ebert, Alden, Minn. 25-3t

Wanted—Good tinner, must be able to furnish references; steady work the year around; state wages. Address, Chas. Skidd, 117 Milwaukee Ave., Kenosha, Wis. 25-3t

Help Wanted—At once, tinner and furnace man. Call or write. Address, Grebe Hdw. & Har. Mfg. Co., Barrington, Ill. 25-3t

Help Wanted—A young man who has had some experience in hardware store and can do ordinary tin repair work. Must be industrious, sober and furnish good references as to honesty. Steady job for the right man. Address, Robert Whittier, Whiting, Iowa. 25-3t

Wanted—At once, tinner who understands ordinary plumbing, steam and hot water heating, and clerk in store part of time. Steady job for right man, $15 per week. Address W. F. Rehbein, Gray's Lake, Ill. ufn

Wanted—Cornice makers to assemble and erect. Good wages and steady work to experienced men. Address, The Edwards Manufacturing Co., Cincinnati, O. ufn

Wanted—Conductor pipe machine operator; good wages to experienced man. Address, The Edwards Manufacturing Co., Cincinnati, O. ufn

Wanted—Salesmen calling on hardware trade with first-class reference for the states of Montana, Wyoming, New Mexico, Georgia, Mississippi Louisiana and Arkansas. Best known and fast selling staple liner made. Address X Y Z, care THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. ufn

Wanted—Cornice workers wanted to put together and erect cornice. Need not be cutters. Address The Edwards Manufacturing Co., Cincinnati, O. ufn

Wanted—Spinners wanted to spin sheet copper and zinc work. Must be reliable. Address, The Edwards Manufacturing Co., Cincinnati, O. ufn

Wanted—At once, a good all around tinner who thoroughly understands inside and outside work, pipe fitting and some plumbing. Steady job for the right man the year around. State wages wanted and references in first letter. Address Rud Puchner, Wittenberg, Wis. ufn

Wanted—First-class salesman, by leading furnace and boiler manufacturer. Only men who have had actual experience in warm air, steam and hot water heating wanted. Prefer men who have sold goods to the trade. Excellent opportunity for the right man. Established trade in territory. Address O. B. J., care THE AMERICAN ARTISAN, Chicago. U. F. N.

SITUATIONS WANTED.

Situation Wanted—A position as hardware clerk by a young married man of experience. Temperate and capable; understand general office work and can furnish best of references. State wages. Address T. A. Vaughn, 1023 W. Decatur St., Decatur, Ill. 27-3t

Situation Wanted—A tinner with 12 years' experience in hot air, hot water and combination heating, wants steady position with up to date firm; capable of estimating, taking contracts and installing plants. Can furnish best of references as to ability and character. Good reason for wishing a change. State full particulars in first letter. Address A 24, care THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 26-3t

Situation Wanted—By an experienced tinner of 20 years. Able to figure on furnace and job work; can do some plumbing also. Address H, care THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 26-3t

Situation Wanted—By married man of 20 years' experience at inside and outside tin, furnace and plumbing work. Can do any ordinary jobs in steam and hot water heating and can wipe a fair joint. American; age 36. Permanent position wanted, prefer a good county seat town. State wages in first letter. Address R., care THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 25-3t

Situation Wanted—By a practical tinner and furnace man, able to figure, plan and install jobs and draft patterns. Have had 12 years' experience. Address M., care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 25-3t

SPECIAL NOTICES.

WANTED

Tinners, sheetmetal, cornice and skylight workers; open shop; good wages, minimum 35c per hour. Apply Metal Workers' Association, Builders' Exchange, Buffalo, N. Y. u.f.n.

WANTED

As salesman in Wisconsin, Minnesota, North and South Dakota, a live man with a knowledge of the furnace business. Permanent position at a good salary. Address, U. S. Register Co., Battle Creek, Mich. 5t-30

SALESMEN

Calling on the furnace trade will learn of a profitable, fast selling side line, by addressing, W. J. Sutherland, Drawer W., Battle Creek, Mich. 5t-30

Special Notice.

Wanted—Traveling Salesman. To sell a well known line of stoves and ranges. Men wanted for Ohio and Minnesota, must be competent and know the trade. Good salary. Address H. W., care of THE AMERICAN ARTISAN, Chicago, Ill.

WANTED

Young man, good at figures and a plain writer, who is familiar with the different parts of a stove, to work in stock room of a Stove Repair House. Address "B-3," care of AMERICAN ARTISAN, 69 Dearborn Street, Chicago.

u. f. n.

FARM TO EXCHANGE

Have good improved Iowa farm and one in Illinois to exchange for stock of hardware or hardware and implements. Will consider good building or building and residence in connection with the stock. Give amount stock will invoice and price of building in first letter. Northern Iowa Land Co., Indepedence, Ia., care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. Ill. 4t-27

WANTED

Side Line: Salesman calling on heating trade regularly, to sell registers—commission basis. State territory covered, and how often; can make confidential or secret arrangements with good men. Address, SALES MANAGER, 2488 W. 27th St., Cleveland, Ohio. u. f. n.

WANTED

Wood Pattern Makers on Stovework. Address "Pattern Maker," care of THE AMERICAN ARTISAN, 69 Dearborn Street, Chicago, Ill. u. f. n.

SITUATION WANTED

Experienced traveling salesman with a No. 1 Chicago and New York City references wants permanent position with enameled ware or stove manufacturer. Can sell any good specialty, salary and expenses or salary, expenses and commission. Indiana, Illinois or the Fast preferred. Would go to the Coast. Address "B2," care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 4t-29

WANTED

A live commission man to handle, in New England States, one of the largest and most complete lines of furnaces and boilers made in this country—a line that is well known in all parts of the United States. Address "Manufacturer," care of THE AMERICAN ARTISAN, 69 Dearborn Street, Chicago.

Capital Wanted

Am going to establish a Stove Repair business in Chicago, selling dealers ORIGINAL Stove Repairs furnished by stove manufacturers. Have had years of experience in Stove Repair business, and see good opening to furnish repairs from original patterns—a good chance for immediate returns on capital invested; references furnished. Address "Capital," care of The American Artisan, Chicago. 5t-26

FOR SALE

USED MACHINERY—One lot shears 3' to 8' in length, both hand and power. One lot light and heavy sheet iron rolls. Also lever punches and shears. BERTSCH & CO., Cambridge, Ind. u. f. n.

FOR SALE

Tinners' Tools as follows:

1—30-inch squaring shears.
1—31-inch tin folder,
1—30-inch roll.
3 Formers.
1 Mandrel.

All in good condition, for the sum of $55.00 f. o. b. cars, Ottawa, Ill.

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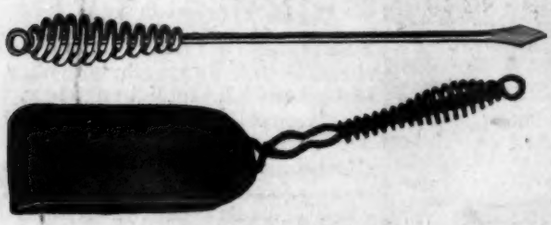

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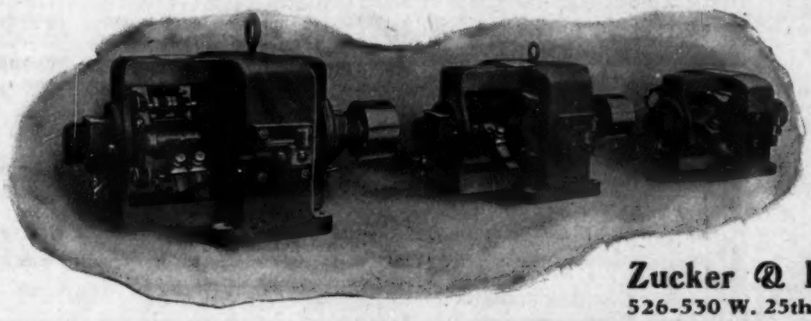

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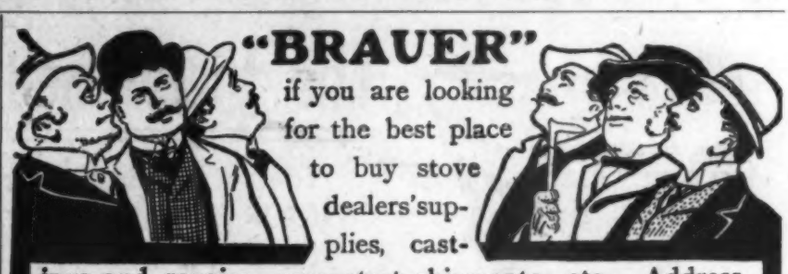

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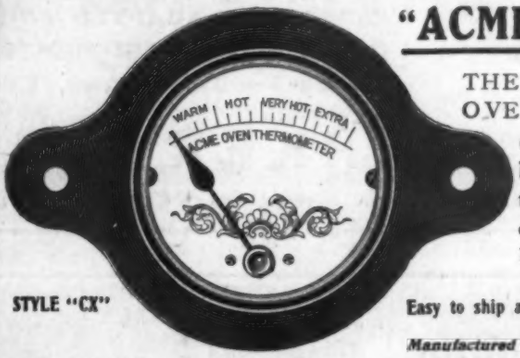

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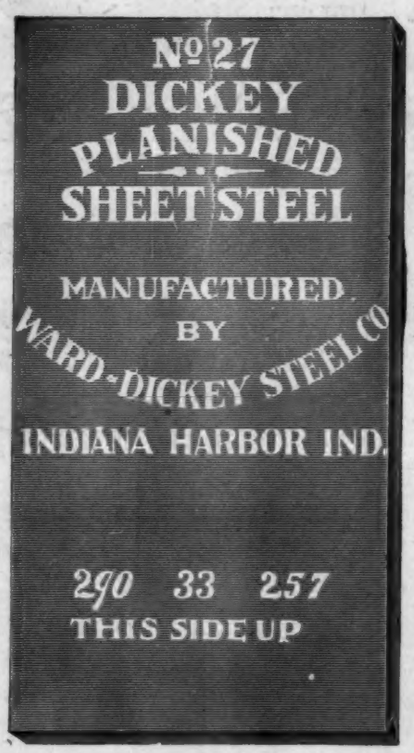

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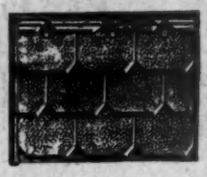

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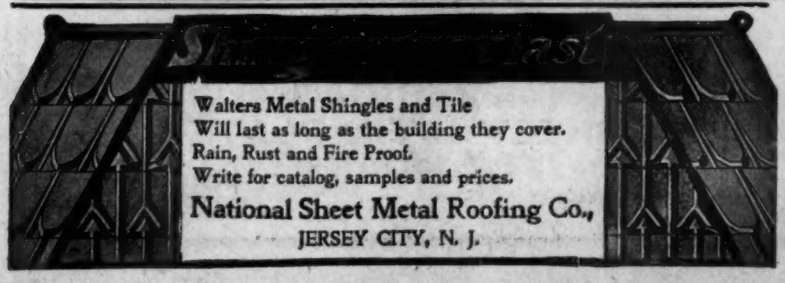

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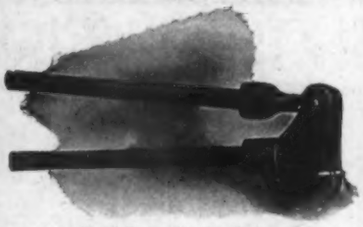

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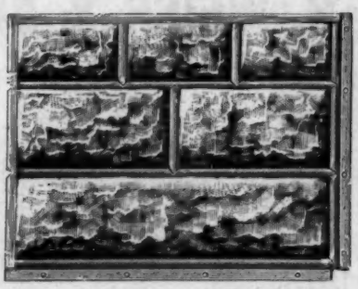

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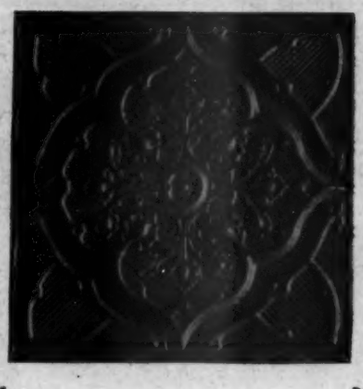

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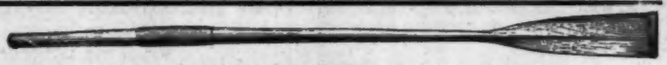

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PRICE
3½-in.....$ 50
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by the best workmen to be the only way to close the end of an eave trough, as corrugations are Proof Against Frost.

Order a set of tools today from any jobber or tinner's supply house.

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Quickly and easily attached to building and trough. Perfect alignment at face and bottom of trough. All joints of gutter come up close.

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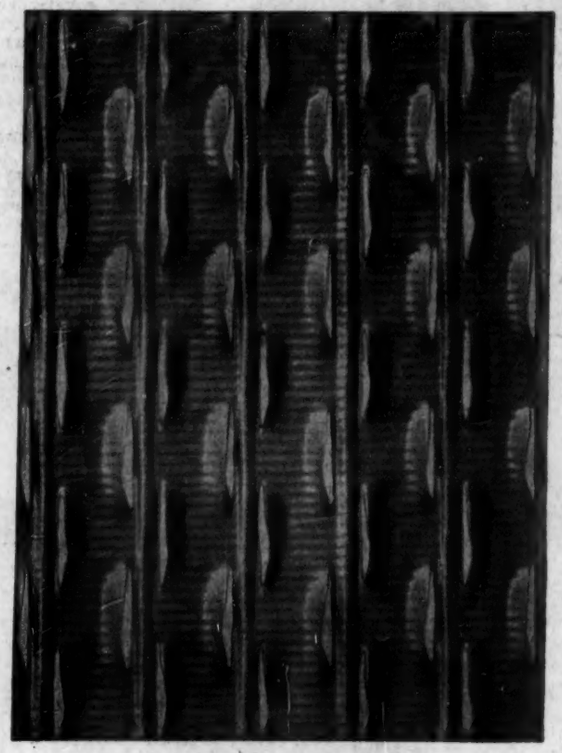

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The most decorative, the cheapest and most easily sold.

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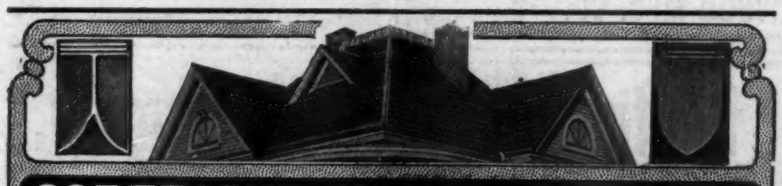

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Chicago to New York

The Erie Railroad System's Industrial Department has all the territory traversed by the railroad districted in relation to resources, markets and advantages for manufacturing, can advise with manufacturers of specific products as to suitable locations, and furnish them with current information of a comprehensive nature dealing with the project in its full relation to manufacture and commerce.

The Erie is one of the greatest of trunk lines. Its own rails connect the two largest cities of America. Every section of the System has its particular merits. Profitable locations exist. It has great general and coal, oil and natural gas resources.

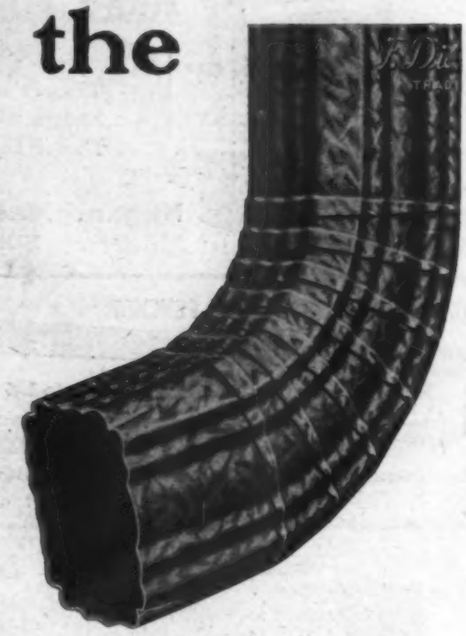
It is important in this age of modern facilities for manufacturers to locate where they can obtain side tracks so as to receive from and ship directly into cars at the factory. Information can be promptly furnished in this connection about every point on the system between New York and Chicago.

Manufacturers' inquiries as to locations are treated in strict confidence, and absolutely reliable information, so as to promote permanent traffic, is furnished. Address

LUIS JACKSON
Industrial Commissioner
Erie Railroad Company.
11 Broadway, New York.

This Is One of the

F. Dieckmann



Flat Crimp Conductor Elbows

(PATENTED)

Watch for another one next week. The "Dieckmann" is the only conductor elbow made of one piece of metal. I make 1,225 varieties, in all styles and angles.

FERDINAND DIECKMANN

Station B : : : CINCINNATI, OHIO

One-Piece Miter

The Improved One-Piece Miter

Not an imitation, neither a mere attempt, but a real full shape standard size MITER. Made of the very best material, sold at the lowest possible price.

Accept nothing but WHITACRE'S ONE-PIECE MITER.

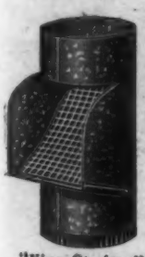
The Leader Cutoff

"Leader" Cut-off.

Leads them all, takes the flow direct to the cistern or sewer unless cut out, thus the conductor pipe is kept in line below the cutoff with same above, giving a neater and more workmanship appearance.

Has a positive valve and simple fastening. Packed half right and half left hand in one dozen crates.

Nothing as good as the LEADER.



"King Strainer"

The King Strainer

King of them all because it can be used in any position on the pipe above or below the cutoff, allowing any combination desired at a reasonable cost. The proper place for the KING is at the outlet of the gutter or trough, thus allowing all foreign matter to be discharged instead of clogging up the gutter or conductor pipe. The birds cannot nest in the elbow with this strainer, has large opening allowing leaves, sticks, etc., to discharge without clogging. Try a few dozen and note the results, a satisfied customer a valuable asset.

Three Times and out, the three above will put all others out.

J. E. WHITACRE MANUFACTURING CO.

Manufacturers of Specialties Dept. A. Rockford, Ill.

EXCELSIOR SQUARING SHEARS

TOOLS FOR SHEET METALS

INCLUDING

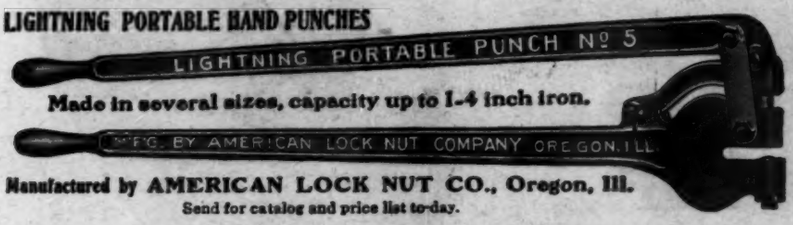
Tinners' and Roofers' Tools, Shears, Punches, Presses and Dies. Can-making Machinery

MADE BY

Niagara Machine & Tool Works

BUFFALO, N. Y.

LIGHTNING PORTABLE HAND PUNCHES



Made in several sizes, capacity up to 1-4 inch iron.

Manufactured by AMERICAN LOCK NUT CO., Oregon, Ill.

Send for catalog and price list to-day.

Thou Shalt Not Steal!

And yet this seams to be an age of STEAL and STEEL; we also have done some STEELING and now have this No. 10 FURNACE TANK drawn out of one piece of No. 21 STEEL and then galvanized; which makes it strong and lasting.

Noiseless No Odor No Smoke

More Heat with Less Fuel
Greatest Range of Heating
3-12 lb. Coppers Indoors or on a Roof

Geo. W. Diener M'f'g. Co. 83 W. Lake Street CHICAGO

No. 6 Shear

This Gap Shear is built any length for any capacity up to 3-16 inch plate. It is also built as a Combined Multiple Punch and Shear, so designed that it can be used either as a shear or a multiple punch independently, or both combined. We manufacture a complete line of Shears, Punches and Bending Rolls, all sizes up to 75 tons in weight.

BERTSCH & CO., Cambridge City, Ind.

"J-M"

The Roofing That Sells

Because of its great durability, fire-resisting and weatherproof qualities, "J-M" ASBESTOS ROOFING is the most profitable to handle. It is a quick seller and always gives satisfaction. It is the "cheapest roofing per year" on the market because coating is not necessary to preserve it.

You can build up a good profitable business by handling "J-M" Roofing.

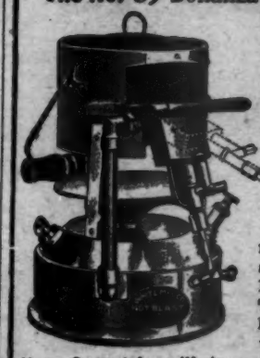
WRITE FOR SAMPLES AND SPECIAL TERMS TO AGENTS

H. W. Johns-Manville Co.

Manufacturers of Asbestos and Magnesia Products, Asbestos Roofings, Packings, Electrical Insulating Material, "Noark" Fuse Devices, Electric Railway Supplies, Etc.

New York, Boston, Minneapolis, Los Angeles, Milwaukee, Philadelphia, Pittsburg, New Orleans, Dallas, Seattle, Chicago, St. Louis, Cleveland, Kansas City, San Francisco, London 214

Hottest On Earth.
The No. 39 Bonanza Furnace



That is what we give you when buying a No. 39 Furnace for all around work. The tank is made of seamless drawn brass. We make many styles of Furnaces and Torches for kerosene as well as gasoline. Our catalog will give you full particulars. Order through any jobber, or send us $4.50; we will ship direct.

THE TURNER BRASS WORKS,
26 No. Franklin Street, - Chicago

THE No. 16 TORCH

$2.75 Net.

Is one of the best quart size pump in handle torches ever made. The burner is powerful, producing a blue blast, intensely hot flame, using but little gasoline. Gasoline costs money and a constant saving soon amounts to dollars. Our catalog is free. It tells all about our line—why it is best and why you cannot afford to use other makes if given to you. Jobbers supply at factory price under our guarantee **"Your money back if you are not pleased."**

CLAYTON & LAMBERT MFG. CO.
DETROIT, MICH., U. S. A.

ASK YOUR DEALER FOR THE

Sem

Soldering Furnace

AND YOU WILL MAKE NO MISTAKE

Always Ready—No Smoke—No Odor—No Noise—Unexcelled—Unequaled—Unrivaled—Safe—Sure—Durable.

GALVANIZED IRON, BRASS OR COPPER RESERVOIR.
Equipped with Cylindrical Slotted Burner.

MADE ONLY BY

BURGESS SOLDERING FURNACE CO.
COLUMBUS, OHIO, U. S. A.

Blick No. 3 The Best Box
FOR RURAL FREE DELIVERY

$5.88 Per Dozen

BE JUST WITH CUSTOMERS

Sell them Blick No. 3 boxes. They are big ones, 6½x8½x 19 inches. Made of heavy galvanized steel. Painted green, the new Government color. Same shape and color as city boxes. Have Positive-Locking Flag Signal, Automatic Latch, Water-Tight Quality. Every box tested, every box right, every box warranted. They will get the business. You better get them. Order now.

$5.88 per Doz.

BLICK-WILLIAMS CO.
INDIANAPOLIS, IND.

THE 20TH CENTURY MAIL BOX

Constructed of No. 20 **Galvanized Steel** and **will not rust or break.**

Is fitted with spring lock and two keys; also heavy glass panel and brass clip within for owner's name. Two springs outside to hold papers. Slot has spring-hinged cover, making it **absolutely rain-proof.** Painted with best aluminum bronze, like U. S. mail boxes. Size, inside 10 x 5½ x 2¾ inches.

Used for free delivery in cities only.

HEISE & BRAUER
63 Union Park Ct., Chicago, Ill.

JULIUS DEERING
of Eau Claire, Wis., writes:

Kindly discontinue my ad in your valuable paper as I have found the party desired. I always receive about fifteen letters when I use your want columns.

12—5

Steel Hardware Shelf Boxes

Screw Cases, Etc.

Send for Circulars.

Heller Co., MONTPELIER, OHIO.

Planet R. F. D. Mail Box

with patented Automatic Flag Signal. Made of 20 gauge galvanized steel. Each box warranted. $5.40 per dozen.

Sanitary Adjustable Strainer Pail

IX Charcoal Tin

12 qt. $4.50

14 qt. 5.00

Jobbers Sell at Factory Prices. Ask Them.

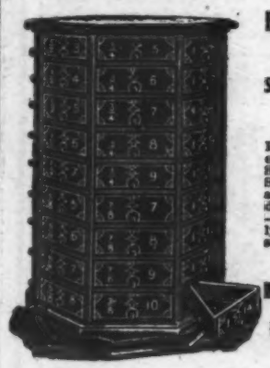
SMITH BROS. MFG. CO.
246-254 E. Kinzie St., CHICAGO, ILL.
Also at INDIANAPOLIS, IND.

Clipper Lawn Mower Co., Dixon, Ill.

Manufacturers of Hand and Pony Mowers, also Marine Gasoline Engines from 2 to 8 horse power.

THE MOWER
That will kill all the weeds in your lawns.

If you keep the weeds cut so they do not go to seed, and cut your grass without breaking the small feeders or roots, the grass will become thick and the weeds will disappear. The Clipper will do it. If you wish Clippers, send in your orders.



Bolt and Screw Cases

SAVE TIME and MONEY

A necessity for Hardware Dealers, Machine Shops, Pattern Shops and in fact anyone who handles small articles—last indefinitely. Send for descriptive booklet.

AMERICAN BOLT & SCREW CASE CO.
Dayton, Ohio, U. S. A.

Make More Money

Rural Routes are going in all around you. New boxes are needed on old routes. You should get this business. You *can* get it with

Bates-Hawley Patent **SIGNAL MAIL BOX**

It is the original box for Rural Routes with special endorsements of Postmaster General. The best made, the best liked, the best advertised and the easiest sold.

SIGNAL MAIL BOX CO.
106, Benton St., JOLIET, ILLINOIS.

Monarch Stump Puller

Will pull 7 ft. stumps without help. Guaranteed for 12 months and a strain of 250,000 pounds. Illustrated catalogue and discounts. Address

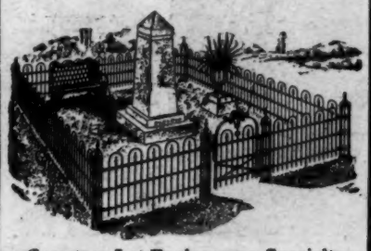
MONARCH GRUBBER CO. : LONE TREE, IOWA

STEWART IRON FENCE

Agents Wanted

Hardware Dealers Make Big Profits Selling Stewarts FAMOUS IRON FENCE

For Residences, Churches, School Houses, Etc.



Cemetery Lot Enclosures a Specialty

Artistic Entrance Gates

Park & Cemetery Arches

Iron Reservoir Vases, Lawn Settees, Iron Tree Guards, Hitch Posts, Fountains, Etc.

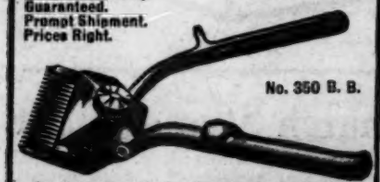
WRITE FOR CATALOGUE No. 23 TO-DAY

THE STEWART IRON WORKS COMP'Y
CINCINNATI, OHIO, U. S. A.

HOTCHKISS CLIPPERS

Standard Quality and Workmanship Guaranteed. Prompt Shipment. Prices Right.

Simple in Design. Elegant in Finish.



No. 350 B. B.

Send for Descriptive Catalogue and Prices.

EDWARD S. HOTCHKISS,
IRANISTAN AVE., BRIDGEPORT, CONN.

Gillette Safety Razor

NO HONING NO STROPPING

The Most Wonderful Selling Razor in the World

IT PLEASES EVERY PATRON, WHO, IN TURN, BRINGS A NEW CUSTOMER.

"THE GILLETTE" sales are permanent, it turns orders to money and profits.

"THE GILLETTE" blade is of fine, flexible, wafer steel that shaves. 20 to 40 quick and comfortable shaves from each blade.

12 Blades 24 Keen Edges

Triple silver-plated set with 12 blades,	$ 5.00
Quadruple gold-plated set with 12 blades,	10.00
Quadruple gold-plated set with 12 blades and monogram,	12.00
Standard combination set with shaving brush and soap in triple silver-plated holders,	7.50
Other combination sets in silver and gold up to	50.00

Standard packages of 10 blades with 20 sharp edges, for sale by all dealers, at the uniform price of 50 cents.

No Blades Exchanged or Resharpened

We supply our dealers liberally with signs, booklets and hangers. Write for our uniform discounts and facts.

GILLETTE SALES COMPANY
TIMES BLDG., NEW YORK CITY

The **OLD RELIABLE**

STAR SAFETY RAZORS

Used for a quarter of a century by men of all nations.

Move all the time; invariably satisfies the customer.

The **SECRET**
The 3 STARS BLADE

Manufactured under a process peculiar to Kampfe Brothers.

Highest Award Wherever Exhibited:
Paris, 1900 Buffalo, 1901 St. Louis, 1904 Portland, 1905

Write for Quotations and Secure an Agency.

KAMPFE BROTHERS,

Manufacturers, 8-12 Reade Street, NEW YORK

THE ROSELAND GOODS

Will not remain long on your shelves. The last piece will bring as much as the first, because they are all good ones. Not a cull in them. If your jobber does not carry these goods, write us and we will send you circulars and advise who carries our line. —*We Manufacture*—

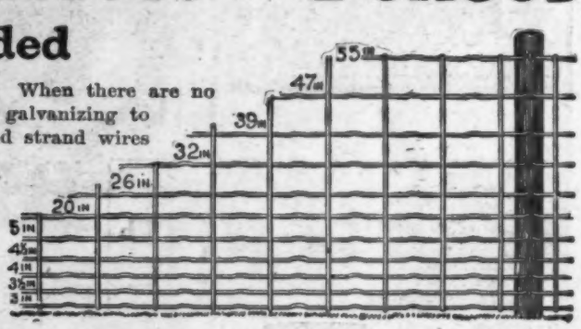
The New Standard Flour Sifter, Roseland Bread Toasters, Rex Fruit and Vegetable Strainers, Queen Jelly Strainers, Tea and Coffee Strainers, Flue Stops, Jacket Cans, and a variety of Tin Specialties.

ROSELAND CAN & SPECIALTY CO., ROCKFORD, ILL., U. S. A.

"Pittsburgh Perfect" Fences

Electrically Welded

When the joints are electrically welded there are no wraps. When there are no wraps there is no chance for moisture to accumulate, for the galvanizing to crack, for the wire to be rusted. Stays cannot slip; stay and strand wires become one piece when the union is made. These fences

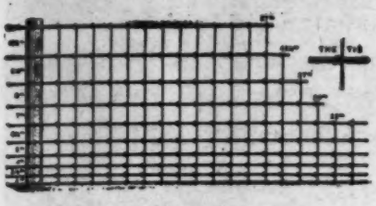


WILL LAST LONGER THAN ANY ON THE MARKET

WRITE FOR CATALOG

Pittsburgh Steel Co., Pittsburgh, Pa.

The Fence That Suits



Your Customer

Is the one for you to handle

Woven Field Fencing

Both Single and Double Strand.

JUMBO POULTRY turns everything.
Lighter Poultry for less money of Various Weights.

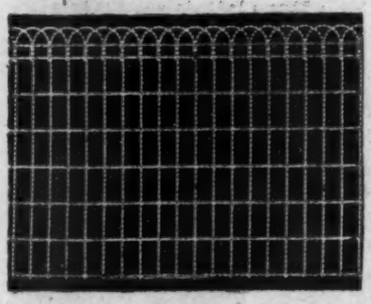
Lawn and Cemetery Fence, Barb Wire, etc.

SEND FOR CATALOGUE.

THE DENNING WIRE & FENCE CO.

CEDAR RAPIDS, • IOWA

"Fences that Sell"



This is a good one; we have others.
Many dealers handling.
We want more.

We also manufacture Field Fence, Wire Gates.

CYCLONE FENCE CO.

Dept. 10 Waukegan, Ill.

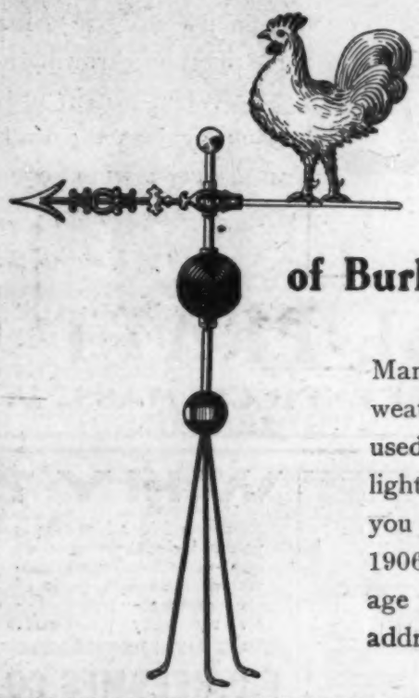
HIGH-GRADE BUGGIES

$47.50 AND UP. Dealers Only.

Strictly First-Class Material

JAMES & MEYER BUGGY CO.

Write for Catalog and Price Lawrenceburg, Ind.



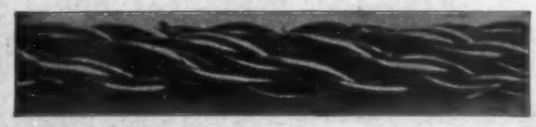
The Security Lightning Rod Company

of Burlington, Wisconsin

Manufactures all kinds o weather vanes that can be used with or without lightning rods. Ask and you shall receive their 1906 catalogue free, postage paid. Send your address to

THE SECURITY LIGHTNING ROD CO., BURLINGTON, WIS.

LIGHTNING RODS ARE A PROTECTION



when you use our

Pure Copper Cable

If it wasn't why do we give a $500.00 guarantee. We have got the best and heaviest Cable and Fixtures on the market, and our prices are far below any other firm now making an inferior cable. There is money in the business for you.

We want an agency in every county; send for catalog and prices to

MAHER & SON, Preston, Ia. The firm that cut down the price of Lightning Rods.

SPERRY'S SUGAR KETTLES

Light, smooth, full measure and guaranteed perfect. Made from original patterns. Metal, the right kind in the right place. Ask your jobber for them or write us.

D. R. SPERRY & CO. HOLLOW-WARE FOUNDERS **Batavia, Ill.**

Stove Repairers, Tinsmiths,

and others will save money, make money, and increase their business greatly if they add to their facilities by getting this Deep Throat

BENCH DRILL No. 18

which is constructed so as to drill in the center of a 54 inch circle. Cut Gears and Three Jawed Chuck, capacity up to ½ inch. Two speeds, which are changed by throwing a cam attached to shifting rod.

When not in use this machine can be swung back against the wall, out of the way. It can be used over a wide bench to advantage.

Ask for our No. 7 Catalogue.
It Teems with Interest About Tools.

GOODELL-PRATT COMPANY

GREENFIELD, MASS., U. S. A.

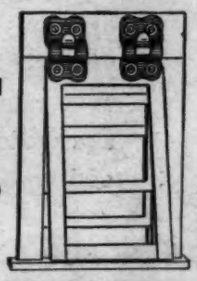
GOSSETT

DETACHABLE SUSPENSION

HINGES

(FOR FULL LENGTH SCREENS.)

SELL.



WHY?

Better send for a free sample pair and give them an actual test—there's nothing so convincing. They're made of stamped steel—japanned—every pair perfect.

SOLD BY MANY HARDWARE JOBBERS.

F. D. KEES MFG. CO.
(DESK A.) BEATRICE, NEBR.

"Yankee" Tools

ARE THE NEWEST, CLEVEREST AND QUICKEST SELLING,

and are without equal in quality or efficiency in practical use.

No. 10 and 11—Ratchet, Right and Left Hand and Rigid

No. 15—Ratchet, With Finger Turn on Blade

No. 30 and 31—Spiral Ratchet, Right and Left Hand and Rigid

No. 40-41-44—Automatic Drill

No. 50—Reciprocating Drill for Wood or Metals

Send for "Yankee" Tool Book

North Bros. Mfg. Co., Philadelphia

Yale Locks

The need of locks may not be a credit to civilization but a Yale lock is a credit to him who uses it and to him *who sells it.*

The genuine Yale lock always has the trade mark

YALE

on the cylinder as shown above. That name is a guarantee of quality in material and workmanship as well as of the latest ideas in lock construction.

Hardware dealers should write for our No. 18 Catalog which lists our more active goods.

Yale & Towne Mfg. Co.
9 Murray St., New York
Chicago Office: 90 Lake Street

ELEVATORS

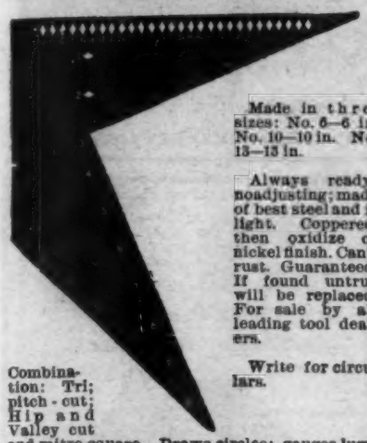
IMPROVED QUICK AND EASY RISING STEAM, ELECTRIC AND HAND POWER

SEND FOR CIRCULARS

KIMBALL BROS. CO.
1031 Ninth St., COUNCIL BLUFFS, IOWA
Kimball Elevator Co., 139 Vincent St., Cleveland, O.

Goodell-Pratt Company
GREENFIELD, MASS. U.S.A.
HACK SAWS
FAMOUS FOR TEMPER AND CUT
HAND AND MACHINE BLADES OF ALL STANDARD LENGTHS AND WEIGHTS
Catalogue Free
G

The New Universal Square
"NEW STYLE"



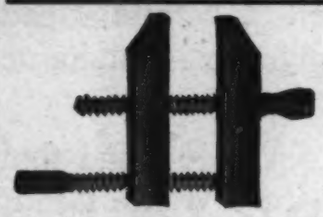
Made in three sizes: No. 6—6 in. No. 10—10 in. No. 13—13 in.

Always ready; noadjusting; made of best steel and is light. Coppered, then oxidize or nickel finish. Can't rust. Guaranteed, If found untrue will be replaced. For sale by all leading tool dealers.

Write for circulars.

Combination: Tri; pitch-cut; Hip and Valley cut and mitre square. Draws circles; gauges lumber; octagonal cuts; laying out mortise and tenons; plumb and level; straight edge; rule scale; and innumerable other purposes. To operate you simply reverse it from side to side. It marks ½-in on one side and ¼ in. on the other.

THE DUBY & SHINN MFG. CO., Inc.
Office and Works: 34 E. 29th St.
NEW YORK CITY



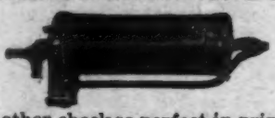
The HAND SCREW with THE SAW-CUT THREADS

IN HAND SCREWS IT PAYS TO BUY THE BEST

The Grand Rapids Hand Screw is as good as can be made. All second growth Hickory Spindles, and the best Maple Jaws. Write for catalog and prices.

GRAND RAPIDS HAND SCREW CO.
160 South Ionia Street **GRAND RAPIDS, MICH.**

FOURTH SEASON OF "PULLMAN" SCREEN DOOR CHECK



No other check so perfect in principle and material, or so satisfactory as to working and wearing qualities. Polished Brass Cylinder; all the remainder cold steel.

SEND FOR NEW CATALOG.
PULLMAN MFG. COMPANY, Rochester, N. Y., U.S.A

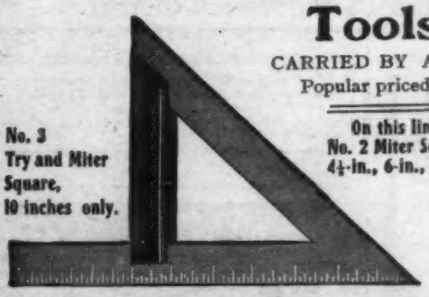
Chas. Lusted, Sr., La Fayette, Iowa, writes: "THE AMERICAN ARTISAN is the inventor's friend."

Try Square No. 5—6-inch only. Note the Gauge edge.

Fox's N. P. All Steel Tools

CARRIED BY ALL JOBBERS.
Popular priced but accurate.

No. 3 Try and Miter Square, 10 inches only.



On this line No. 2 Miter Square 4½-in., 6-in., 8-in.

No. 25 Level, with One Plumb. $20.00. No. 25½ Level, with Two Plumbs, $24.00.

AKRON ECLIPSE LEVEL. Per Dozen $60.00

In introducing the above new Mason's Level, we are endeavoring to meet a demand from all parts for a Plumb Rule and Level which should embody the following points: **It must be light in weight; it must be four feet long; it must have two plumbs; it must have good hand grip; it must have glasses clearly exposed; it must be firmly set, but adjustable; it must be low in price.**

Don't you think we have met the demands? Write for discount.

THE BAKER-McMILLEN CO., Akron, Ohio, U. S. A.

Stanley Rule and Level Co.

IMPROVED CARPENTERS' TOOLS

Sold by All Hardware Dealers. **NEW BRITAIN, CONN.**

YOU CAN GET THE PAINT BUSINESS OF YOUR TOWN **By Selling**

ESTABLISHED 1851. THE H&M PAINTS TRADE MARK ADOPTED 1908.

Every Can Contains Satisfaction for Your Customers and Profit for You.
Exclusive Agency Proposition and complete line of color cards sent on request, if we have no agency in your city. Write——NOW.

Heath & Milligan Mfg Co

Paint and Color Makers, CHICAGO, U. S. A.

"Put a Little SUNSHINE in Your Home."

Do you want to increase your business on White Lead?

Do you want to sell a White Lead which is not advertised by any Catalogue or Mail Order House?

Do you want to sell a White Lead that is BETTER than Strictly Pure White Lead?

Do you want to sell a White Lead which is put up in Steel Kegs?

Do you want to be the only dealer in your city to handle an article of this kind?

If so, write at once to

Enterprise Paint Mfg. Co.

Van Buren and Peoria Streets, Chicago

GUARANTEED DIVINE'S WATER MOTOR

is guaranteed to give 3 times as much power and is better than any other Faucet Water Motor.

6 inch Motor (illustrated) for running Washing Machines, Ice Cream freezers, printing presses, cream separators, horse clipping machines, etc. **$12.00**

4 inch Motor for household purposes, such as grinding table knives, axes, etc., polish silverware and run sewing machines, 1000 other uses. Price **$4.00**

$3.50 and this ad will get a 4 inch Motor.

Discount to Dealers.

Our References: Bradstreets, Dun's, Oriental National Bank, New York City

DIVINE WATER MOTOR CO.
108-110 Duane Street, NEW YORK

Here's a Chance to Enjoy A Summer Outing

3 DAYS LAKE TRIP $13
Chicago to Escanaba & Green Bay Ports & Return, Including Berth and Meals.

4 DAYS LAKE TRIP $17
Chicago to Mackinac Island and Return Including Berth and Meals.

MUSKEGON or GRAND HAVEN
AND RETURN FROM CHICAGO **$2.75**

MILWAUKEE
AND RETURN FROM CHICAGO **$1.50**

Write for folder and any particulars desired to

GOODRICH BOATS

R. C. Davis, G. P. A.
Docks, foot of Michigan Ave.
Chicago, Ill.

C. De Witt Wagner, 40[illegible] Third Ave., Cedar Rapids, Ia., writes: "Please accept my thanks for your help in securing a tinner for me. I had letters from several states which goes to show that The Artisan is read."

THE WATER WAY

BETWEEN

DETROIT AND BUFFALO

The D. & B. Line Steamers leave Detroit weekdays at 5:00 p.m., Sundays at 4:00 p. m. (central time) and from Buffalo daily at 5:30 p. m. (eastern time) reaching their destination the next morning. Direct connections with early morning trains. Lowest rates and superior service to all points east. Popular week end excursions to Buffalo and Niagara Falls leave Detroit every Saturday and return Monday morning.

RAIL TICKETS AVAILABLE ON STEAMERS

All classes of tickets sold reading via Michigan Central, Wabash and Grand Trunk railways between Detroit and Buffalo in either direction will be accepted for transportation on D. & B. Line Steamers. Send 2c. stamp for illustrated pamphlet. Address: **A. A. SCHANTZ, Gen. Supt. & P. T. M.**

DETROIT & BUFFALO STEAMBOAT CO., DETROIT, MICH.

WE PREPARE PLANS, ESTIMATES AND REPORTS FOR

INDUSTRIAL PLANTS

We reduce

Labor @ Expense Account

to a minimum by applying

LABOR SAVING DEVICES & SPECIAL MACHINERY

and by avoiding unnecessary Handling of Materials.

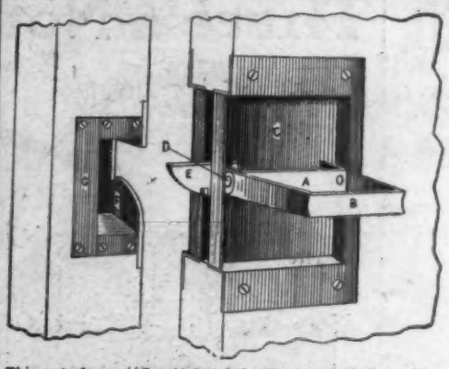
We remodel Antiquated Plants and make them profitable.

Vollkommer & Co.

Engineers and Technical Experts

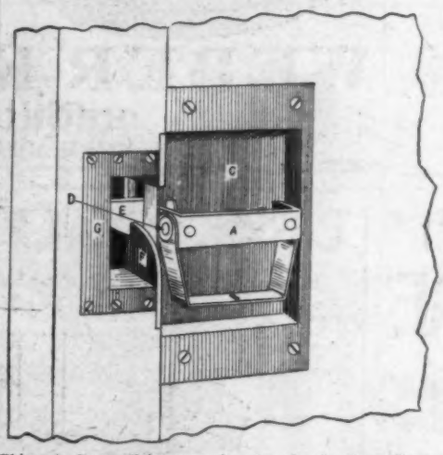
1112 Empire Bldg., Pittsburg, Pa.

L. W. Richards, Memphis, Tenn., writes: "Inclosed please find check for $2 for which kindly send me the American Artisan for one year and your House Warming Manual as advertised. I consider the American Artisan and Hardware Record one of the most valuable books ever published for my line of business and I wish you success." 11-05



This cut shows "Gem" Latch in the act of closing with a sliding door. Both sides of Latch are exacty alike.

The "Gem" Barn Door Latch



This cut shows sliding or swing door in closed position, with handles dropped flush with the door.

THERE IS A DEMAND FOR THE "GEM" Barn Door Latch

For it is the ONLY Latch on the market that is adapted for either sliding or swinging doors.

That allows the door to slide clear back when open and at the same time has large, generous handles that drop down flush.

That comes packed one in a pasteboard box, complete with screws.

There are hundreds of sliding doors in your vicinity without a suitable latch—because there never has been one on the market.

Here is a Profitable Specialty

and the first dealer to push it will reap the profit. One latch in each first order will be a mounted sample.

All Steel Heavy Strong Durable

To Dealers $4.75 A Dozen

Delivered in 3-dozen lots. Retails at 60c.

C. A. Peck Hardware and Mfg. Co.

BERLIN - WIS.

Pointing and Brick Layers' Trowels

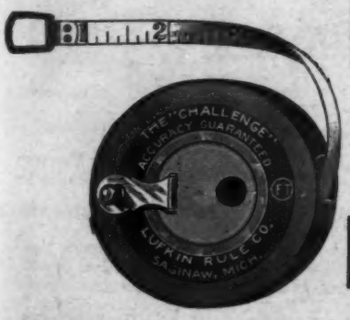
The blades are made of best spring steel, the shank of the best air furnace malleable iron. Hardwood, well polished, forms the handle. Our household cleavers are a necessary line in every hardware store. They sell easily and they pay well. We make a large assortment of Builders' Hardware and have the largest and best equipped hinge factory in the world.

Bricklayers' Trowel

Hinges, Butts, Shelf Brackets Door Bolts

WRITE FOR CATALOG

GRIFFIN MFG. CO., :: Erie, Pa.



Measuring Tapes

Steel, Metallic, Linen, etc. Our goods are Recognized as the Best. Tinners' Rules, Magic Pattern Rules, etc. Send for Catalogue and Mention The American Artisan.

Lufkin Rule Co.

SAGINAW, MICH.

PEORIA CAN CO.

We have a complete modern equipment and make all kinds and sizes of

CANS

Send in your list of wants in cans and we will quote prices.

PEORIA CAN CO.
PEORIA, ILL.

There's Nothing Like It!

Entirely New.
Absolutely Odorless.
Patent Pending.

KIRCH'S SANITARY
Combination Commode Chamber Pail

The Most Practical Pail on the Market.

Manufactured by

WEBER-KIRCH CO.
KEOKUK, IOWA
ASK YOUR JOBBER FOR THEM

BRISCOE MANUFACTURING COMPANY

O-RIB-O WARE
DETROIT, MICH.

C. N. HOOPER, Dubuque, Iowa.
VITREOUS ENAMELING
TECHNOLOGIST

Designs, builds and starts new plants. Improves quality and reduces the costs in those already established.

U. S. CLOTHES PINS
never rust, smut, split, or blow off the line.
Any special clips made to order.

U. S. CLOTHES PIN COMPANY,
MONTPELIER, VT., U. S. A.

THERE IS NO BETTER WAY
BETWEEN
CHICAGO
INDIANAPOLIS
AND
CINCINNATI
THAN THE

MONON ROUTE
Chicago, Indianapolis & Louisville Ry.

4 TRAINS A DAY 4

Standard and Compartment Sleepers on Night Trains, Parlor and Dining Cars on Day Trains.

CHAS. H. ROCKWELL, Traffic Manager
FRANK J. REED, Gen. Pass. Agt.
CHICAGO

Wash Boilers

STAMPED TINWARE
JAPANNED WARE
GREY ENAMELED WARE

OUR PRICES WILL INTEREST YOU.

STAR ENAMELING & STAMPING CO., Pittsburgh, Pa.

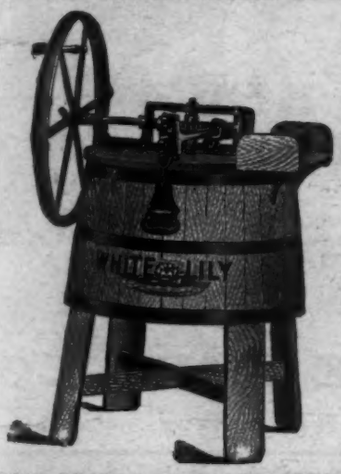
Write for Circulars and Terms

The Ideal Epworth Acetylene Generators are **Ideal** in construction, **Ideal** in light producing power, **Ideal** in giving out steady light, **Ideal** in selling qualities, **Ideal** in lighting **Dwellings, Stores, Hotels, Churches** and **Towns. Acetylene Light** is the safest, best, cheapest, brightest, finest light in the world, when produced in the **IDEAL EPWORTH GENERATORS.**

Satisfaction Guaranteed. Agents wanted. (Successors to Epworth Gas, Light & Heating Co.) WATERLOO, IA

THE WHITE LINE IS THE RIGHT LINE

Highest Speed, Easiest Running and Most Durable Washer Made



White Lily Washers Wash Lily White

The only Ball Bearing Rotary Washer on the Market

The White Rose is Without a Competitor

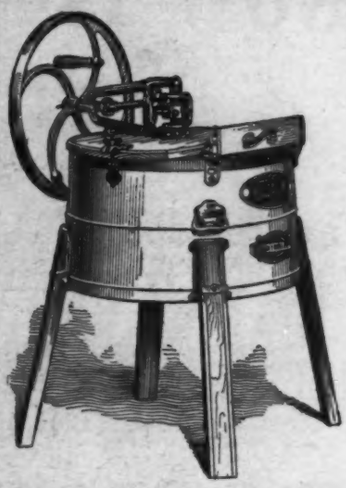
The Most Perfect Rubber Type of Washer Ever Produced

This complete line sold to one dealer in each town

Write for Exclusive Agency

WHITE LILY WASHER CO.

Toledo Ohio — Davenport Iowa



The MAJESTIC WASHING MACHINE

Roller bearings. Large fly wheel. Lightest running Washer on the market. People are writing us daily to know where they can buy the Majestic. It is the quickest seller and commands the biggest profit to you of any Washing Machine made. That is why you should sell it. The tub of the **Majestic** is made of selected **Virginia White Cedar,** and will stand the action of water a life time. It is bound with our celebrated **Electric-Welded Wire Hoops,** is steam-tight and easy to operate. Two hundred thousand satisfied customers will testify to all we say.

We are shipping out 2500 Majestics each week. Write us for catalogue and prices.

Richmond Cedar Works

Manufacturers of Wooden Ware

Richmond, Virginia.

Have you seen the

SNOW WHITE

The latest and finest Creation in a washing machine to date?

Ask your jobber or write us.

BENBOW-BRAMMER MFG. CO., ST. LOUIS, MO.

The Pioneer Washing Machine Manufacturers.

Ready! Aim! Fire!

Ask your jobber to book your order now, for Steel Snow Shovles, Furnace Shovels and Sidewalk Scrapers.

"ALASKA"
"TROPIC"
"KLONDIKE"

The Brands to remember if you want the Best.

Catalogue just out.

The AVERY STAMPING CO.,
Cleveland, Ohio.
Manufacturers "Never-Break" Utensils

CREAM SEPARATORS

We want Separators to job to retail hardware trade at about $25.00, $35.00 and $45.00. Communications from all reliable manufacturers will receive careful attention.

PAXTON & GALLAGHER CO.
OMAHA, NEB.

NOW IS THE TIME!

Don't wait until tomorrow but write at once for the exclusive agency for the

ROYAL BLUE Washing Machine

Finished in natural color of wood. Hoops and castings painted with Royal Blue Enamel.

H. F. BRAMMER MFG. CO.

1461 W. 2nd Street **DAVENPORT, IOWA**

Wrings the Mop dry

Peerless Iceland

These are the freezers that sell.

Both feet rest firmly on the floor—no danger of upsetting bucket and wetting feet. *Pressure* that *wrings* mop is from a *spring*, *not* from the foot. Two springs, one on either side are independent of each other, pressure adjusts itself to any unevenness of mop—wrings all of mop thoroughly.

Tub is strong and extra braced. Rollers are solid maple and *never* stick. Attractively labeled—make good display in your store—sure to please customers.

Ask your jobber. **THE DANA MFG. CO., Cincinnati.** **10 Warren Street, N. Y.**

Eagle Mop Wringers and Ohio Detachable Mop Heads and Handles

Meet every service demanded of them. WHY?
Because they are built upon the correct principles. They have been hailed with delight by users, and the universal verdict is, I WANT NO OTHER. Ask your jobber or write us direct. A catalogue for the asking.

Eagle Cooperage Works, Sole Mfrs., **Circleville, O.**

The "HUSTLER" Ash Sifter

Is a Winner. Pleases Everybody

Sales last season were more than double those of the previous season. Dealers everywhere are enthusiastic over the sale of the Hustler. Orders should be placed at once to insure prompt delivery.

Send for Catalogue and Prices.

Hill Dryer Company

Also Manufacturers of Hill's Famous Dryers

WORCESTER, MASS., U. S. A.

Dollars for Dealers in

BECAUSE:

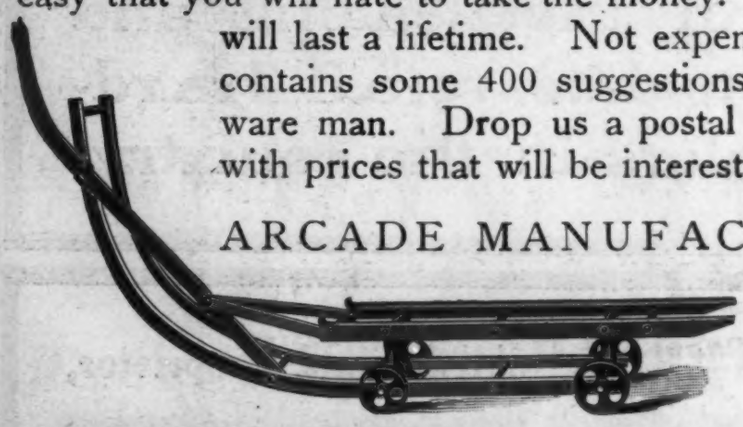
They are the best that money and skill can produce and our extensive advertising is bringing that fact to the attention of the people, creating a demand for the goods and bringing the people into the store of the Retail Dealer, because they cannot be obtained from any other source.

We put the people in the frame of mind to be willing to pay for them a price in which there is a good margin of profit for you. Then we bring them into your store and you have only to hand the goods over the counter and take the money.

Keen Kutter Goods give such thorough satisfaction that they will bring people back to your store again for the next tool they have occasion to buy, and will prevent them from sending their order for it to the Catalog House.

CAN YOU MOVE A HOT STOVE?

Hot or cold, big or little, the Baltzly will handle them so easy that you will hate to take the money. Made of steel and will last a lifetime. Not expensive. Our catalog contains some 400 suggestions for the alert hardware man. Drop us a postal and we will send it with prices that will be interesting.



ARCADE MANUFACTURING CO.

FREEPORT, ILLINOIS.

Jesse J. Hensel, Milan, Wis., writes: "I find your publication of such inestimable value in my previous capacity as hardware manager for a large firm located in the western part of this state, that I feel as if I could ill afford to be without it now."

PROGRESS IS NO LONGER BARRED

Is the **KEY** that unlocks the door of trade expansion, and brings the progressive Manufacturer and Jobber in touch with the leading and most up-to-date retail hardware dealers in the country.

DANIEL STERN, Publisher and Proprietor,

69 Dearborn Street, CHICAGO.

TRIUMPH

In Boiler-Making

Quality, Construction and Finish are the distinguishing features of

Reed's Monarch Hand-made Wash-Boiler

Four grades—1X, 2X, 3X, 4X, 5A tissue lined charcoal plate with 14, 16, 18 and 20-oz. full weight copper bottoms, full line tin bottom and metallic bottom boilers, also four grades all copper boilers.

Monarch boilers all wired with 5-16 hard market steel wire drop forged, which makes the boiler strong enough to withstand a pressure of 300 lbs. without deflecting 1-16 of an inch. *See Cut.*

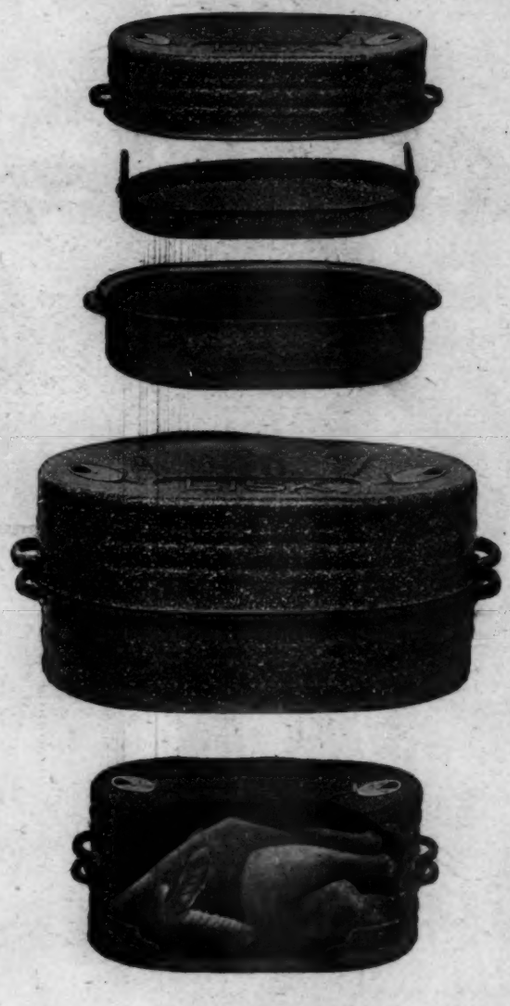
Furnished with Reed's new, seamless pressed cover, with 1-inch rim; cover and rim made of one piece; patent cold stationary handle, riveted on top of cover. Fits like a glove—is strong and durable.

Catalogue and price list mailed free on application. A comparison of prices will warrant your patronage, as we are in a position to furnish the best boiler for the least money made in America.

Reed Manufacturing Co., Newark, N. Y.

Branch Offices: 223 West 12th Street, CHICAGO
55 Atlas Bank Bldg., CINCINNATI

LISK'S Stamped, Seamless, Sanitary, Self-Basting ROASTER



The Most Perfect Roaster in the World.

IMPERIAL GRAY ENAMEL

Warranted for Ten Years.

For Roasting Meats, Game, Poultry, and Baking Bread, Beans, Etc., Etc.

Its Simplicity, Durability and Economy Appeal to Every Lover of the Culinary Art.

SIZES

No. 1	No. 2	No. 3	No. 4
Size, 10x15, 7 in. high For 6-pound Roast.	Size, 10x16, 7½ in. high For 12-pound Roast.	Size, 11x17, 8 in. high For 16-pound Roast.	Size, 12x18, 8½ in. high For 20-pound Roast.

Sold in the United States by over 30,000 Dealers in High-Grade Hardware

Send for Booklet

THE LISK MFG. CO.

[LIMITED]

CANANDAIGUA, N. Y.

New York Office: 32-38 Fulton Street. Telephone 2487 John

THE BEST IS THE KIND TO SELL

At the annual championship tournament of the Indoor .22 Caliber Rifle League of the United States, held at Grand Rapids, Mich., February 12-17, 1906,

PETERS CARTRIDGES

ESTABLISHED THE WORLD'S RECORD.

2481 OUT OF A POSSIBLE MADE BY W. A. TEWES **2500**

FIRST HONORS

At Zettler Rifle Club Open Tournament, New York, March 10-17, 1906, 100-Shot Match won by Arthur Hubalek, score 2468. Seven of the first ten prize winners used PETERS .22 SHORT CARTRIDGES.
Zimmermann Trophy won by L. P. Ittel. Best Bullseye made by W. Rosenbaum. L. C. Buss and L. P. Ittel made the possible 225 on the Ring Target.

80% OF THE CONTESTANTS IN THESE MATCHES USED PETERS CARTRIDGES—THE SEMI-SMOKELESS KIND

There is as much profit in Peters Ammunition as in other makes—and a lot more satisfaction. This is not mere "talk," but actual fact.

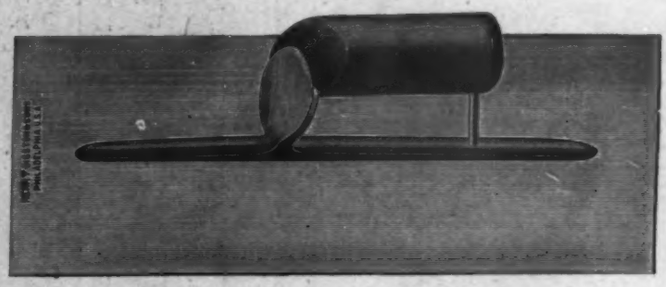
THE PETERS CARTRIDGE COMPANY, CINCINNATI, OHIO.
NEW YORK: 98 CHAMBERS ST., T. H. KELLER, Manager.

All Disston Products

are famous in this and other continents for quality. The name Disston stands for unequalled skill, honesty of manufacture, unflagging industry. The

Western Plastering Trowel

is made of the highest grade crucible steel. The blade is accurately ground, extra thin. It is fastened with seven rivets to the long mounting, with shield. The end of the handle is beveled for thumb rest. **Easy, comfortable grip, strong and durable. Note reinforcing post at end of handle.**



Quality Tells

HENRY DISSTON & SONS, Inc.

Keystone Saw, Tool, Steel and File Works
PHILADELPHIA : : : : : : : PA.

STEVENS

FAVORITE RIFLE No. 17

Standard Length of Barrel, 22 inches.
Weight of Rifle, Complete, 4½ Pounds.
List Price (with Rocky Mountain Front and Sporting Rear Sights), $6.00

STEVENS FIRE-ARMS are the logical line for the merchant to handle. Our goods are **Guaranteed** for **Quality**, and being long and favorably known as embodying the essential properties of high-grade arms, are preferred to all other makes. The manifold features of the **"STEVENS"** are advertised in a broadcast way in National Publications and the Agricultural Press. **We consistently co-operate with the dealer who handles our products, as our interests are identical.**

All Jobbers handle our goods; insist on getting the "STEVENS"

Illustrated Catalog mailed FREE anywhere upon request; it contains detailed descriptions of our entire line and should be in the hands of every retailer.

J. Stevens Arms & Tool Co.

No. 460 MAIN STREET
CHICOPEE FALLS, MASS., U. S. A.

Good Roofing Tin

Not the imaginary kind of goodness but the real thing that you can see and feel when you examine and work the tin. Samples and prices yours for the asking.

The McClure Co.
Pittsburgh Philadelphia

NOTICE!

We have exceptional facilities for handling American products: Hardware, Sanitary, Heating and Ventilating Goods. Branches in England and Continent. References furnished. Address
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"SCOTT'S EXTRA COATED ROOFING TIN"

is

A FIRST-CLASS ARTICLE ALWAYS

It has proved it one year after another for 21 years so far.

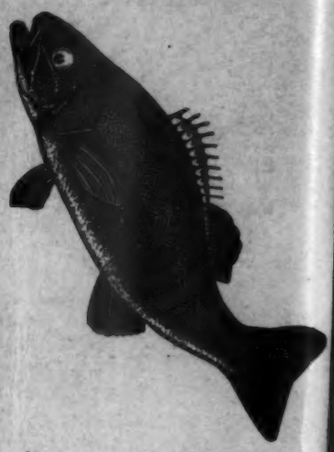
FOLLANSBEE BROTHERS CO.

PITTSBURGH
MAKERS

Stocks at 16 points

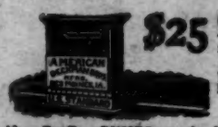
PFLUEGER'S Fishing Tackle

Hooks, Flies, Trolls, Spinners, Phantoms, Reels, Furnished Lines, Everything in Fishing Tackle.



NOTICE—Free to any Dealer in Sporting Goods. Sent Express Prepaid, 170-Page Illustrated Catalogue No. F24, and Metal Fish Sign in 8-Color Lithograph

The Enterprise Mfg. Co.,
AKRON, OHIO, U. S. A.



$25 ON 5 TON is what you can save. We make all kinds of scales. Write for prices.

Also R. R. PUMPS and WIND MILLS
Beckman Bros., Des Moines, Ia.

WE WANT THE DEALERS TRADE
Write us.

STAR EXPANSION BOLT CO.
147 Cedar St., N. Y. 143 Lake St., Chi

The "GLOBE" Ventilator

in BRASS, COPPER, GALVANIZED IRON and with Glass Tops for Skylight purposes.

For Perfectly Ventilating Schools, Churches, Halls, Mills, Factories and Audience Rooms of Every Character.

SMOKY CHIMNEYS CURED
"GLOBE" Ventilated Ridges.
Send for Pamphlet.
Manufactured by
GLOBE VENTILATOR CO., Troy, N. Y.

DELTA FILES DELTA FILES

FILES OF QUALITY

DELTA FILES TRADE DELTA

Lest You Forget—We Say It Yet

DELTA FILES

CARVER FILE CO., - Philadelphia,

ATKINS HIGH GRADE SILVER STEEL SAWS

are profitable Saws. Good mechanics buy them readily, because they appreciate their quality. They pay a fair price for them, because they know their value. Can't we send you a Catalogue?

E. C. ATKINS & CO., Inc.

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